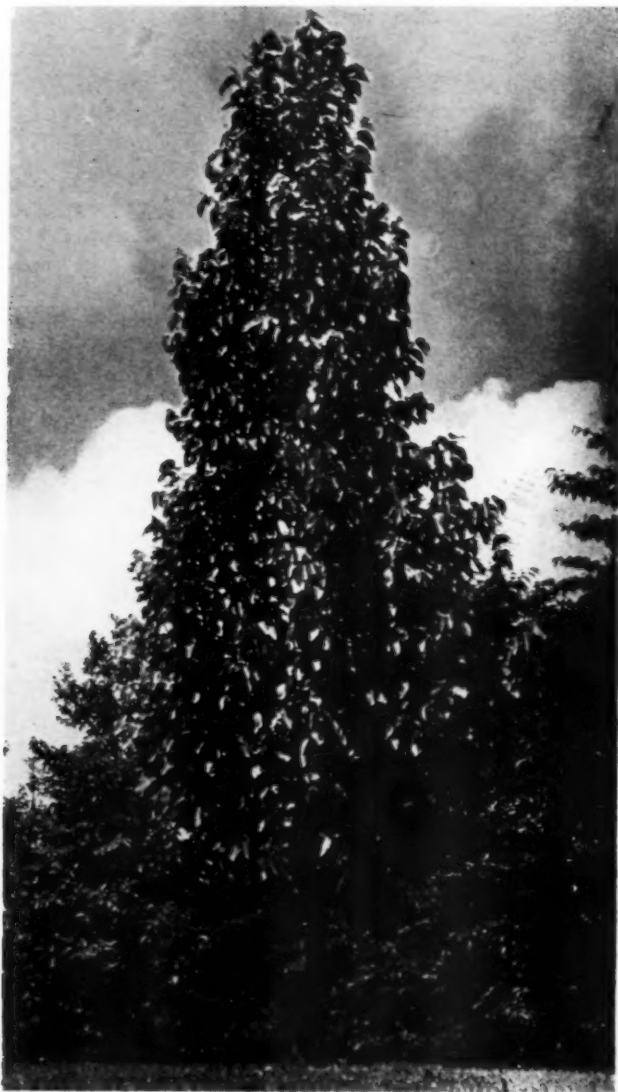


AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

NOVEMBER 1, 1958



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SEEDS

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FLOWER—GRASS—VEGETABLE

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SEEDSMEN, INC.

678 Broadway, New York 12, N. Y.

Correspondence with seed collectors and growers invited. Free catalog "Seeds for Nurserymen."

FRUIT TREE STOCKS

WESTERN-GROWN — UNDER IRRIGATION

Our experience has demonstrated that, due to favorable climatic conditions, western seedlings are superior for planting. We are using all western-grown apple seedlings, for our grafting and for budding stocks. We also use the other varieties of western-grown fruit tree stocks for our own budding.

PRICES—Are for shipment from Shenandoah by early January or shipment direct from our Zillah, Washington, plant.

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Our Washington-grown apple seedlings are making a splendid growth and will be of excellent quality. They will be dug when well-ripened, carefully graded and will please.

	Per 100	Per 1000
1/4-in. cal. and up	\$4.50	\$40.00
No. 1, 3/16 to 1/4-in. cal., br.	4.10	36.00
No. 1, 3/16 to 1/4-in. cal., straight	4.50	40.00
No. 2, 2/16 to 3/16-in. cal., br.	3.20	28.00
No. 2, 2/16 to 3/16-in. cal., straight	3.20	28.00
No. 3, about 2/16-in. cal.	2.40	20.00

HOPA CRAB APPLE SEEDLINGS— Washington-grown

1/4-in. cal. and up, straight	6.00	55.00
No. 1, 3/16 to 1/4-in. cal., straight	5.50	50.00
No. 2, 2/16 to 3/16-in. cal., straight	4.50	40.00
No. 3, about 2/16-in. cal.	3.50	30.00

MAHALEB SEEDLINGS— Washington-grown

1/4-in. cal. and up	4.30	38.00
No. 1, 3/16 to 1/4-in. cal.	4.10	36.00
No. 2, 2/16 to 3/16-in. cal.	3.20	28.00
No. 3, about 2/16-in. cal.	2.40	20.00

MAZZARD SEEDLINGS— Washington-grown

	Per 100	Per 1000
1/4-in. cal. and up	\$4.30	\$38.00
No. 1, 3/16 to 1/4-in. cal.	4.10	36.00
No. 2, 2/16 to 3/16-in. cal.	3.00	28.00
No. 3, about 2/16-in. cal.	2.40	20.00

PEAR SEEDLINGS—Bartlett Washington-grown

1/4-in. cal. and up, br.	4.50	40.00
1/4-in. cal. and up, straight	4.50	40.00
No. 1, 3/16 to 1/4-in. cal., br.	4.10	36.00
No. 1, 3/16 to 1/4-in. cal., straight	4.10	36.00
No. 2, 2/16 to 3/16-in. cal., br.	3.20	28.00
No. 2, 2/16 to 3/16-in. cal., straight	3.20	28.00
No. 3, about 2/16-in. cal.	2.40	20.00

PLUM, NATIVE Iowa-grown

1/4-in. cal. and up	4.50	40.00
No. 1, 3/16 to 1/4-in. cal.	4.00	35.00
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No. 3, about 2/16-in. cal.	2.10	18.00

QUINCE ROOTED CUTTINGS Western-grown

1/4-in. cal. and up	6.50	60.00
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One of America's Foremost Nurseries

Mount Arbor Nurseries

ESTABLISHED 1875

• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CVIII, NO. 9

NOVEMBER 1, 1958

Founded 1904

With which was merged 1939

THE NATIONAL NURSERYMAN

Established 1893



Published on the

first and fifteenth

of each month by the

AMERICAN NURSERYMAN
PUBLISHING COMPANY

343 South Dearborn Street,

Chicago 4, Illinois.

Telephone: WAbash 2-9011



Subscription Price:

\$5.00 per year; outside

United States, \$6.00;

Single Copies, 25c.



Advertising Rates

On Application.

For Closing Dates

See Next Page.



Entered as second-class matter
December 14, 1933, at Chicago,
Ill., under act of March 3, 1879.

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Forms for the December 1 issue will close Friday, November 14.

Forms for the December 15 issue will close Friday, November 28. Mail copy to arrive at Chicago by these dates—no later!

THE CASE OF THE BUSY BOOKIE...



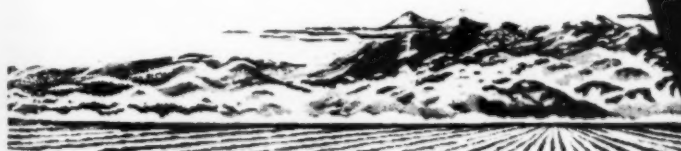
It was one of those normal days at Howards of Hemet . . .
 . . . hectic! They were booking orders faster than the No. 1 window at
 Santa Anita . . . taking orders from "sure betting nurserymen" for
 strong finishers like Texan, Tom-Tom, Tiffany.
 Suddenly the odds changed! Heavy money was being placed on
 ANGEL WINGS, America's new exhibition rose.

The busy bookie buzzed the boss . . . but before a thing could be done,
 all Howards of Hemet grown roses were in the running for the top money!
 (We grow 'em all—all the popular patented and non-patented varieties.)
 "Boss", the busy bookie bellowed, "every nurseryman is a winner!"

This of course could only happen with Howards of Hemet Roses.

Want a hot tip? Send for our 1959 price list today!

"Seasoned Rosebushes"
 for the wholesale trade exclusively



HOWARDS of HEMET
"Seasoned Rosebushes"
 HEMET • CALIFORNIA

AMERICAN NURSERYMAN

F. R. KILNER
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Editorial

MISLEADING PRICE ADS

Intensified enforcement of rules in regard to price advertising has been ordered by the federal trade commission, and it has issued a set of rules fixing the border line between legal advertising of this kind and illegal fiction.

The key directive in these rules to its investigators is to judge the impact of advertisements in their entirety, since some price claims "may be entirely misleading although every sentence separately might be literally true."

The fact that the enforcement is to be thoroughgoing is indicated by the announcement that it will apply to radio and television commercials as well as to printed advertisements in various media.

Claimed savings to buyers in price advertisements must be actual and not fictitious. The markups from which reductions are taken must be real. Price comparisons may be used only if it is made clear that the advertiser is talking about comparable merchandise in the same buying area.

The type of advertising at which the directive is particularly aimed is not often used in the nursery trade, but bargain sales or other forms of price cutting are not rare in some communities. Nurserymen employing price reductions as a sales attraction must be sure that they are bona fide.

As in the case of the fair trade practice rules compiled for the nursery industry with the cooperation of the federal trade commission, those persons who are honest and fair in their dealings have nothing to fear. Trick or misleading advertising and falsification of prices are offenses which bring action. The announcement from Washington indicates that borderline cases will be examined more closely, and citations recently issued against large corporations show that the F. T. C. is in earnest.

The Mirror of the Trade

DOWNTOWN PLANTINGS

Reports from various sources indicate that the number of communities that have made or are planning to make tree or other decorative plantings in the downtown area are on the rise. In these projects difficulties have become apparent in different communities, which interfere with their unqualified success.

These difficulties are various. Sometimes it is a matter of inadequate drainage and overwatering; sometimes it is the reverse. Sometimes it is the use of wrong material. Other problems stem from lack of adequate maintenance or care and in some instances from a high rate of vandalism. Where large portable boxes or other containers are used in warmer states, the heat during the summer months may cause losses, or the boxes may become damaged or pushed out of place by pranksters.

In spite of these problems, the apparent desire of businessmen to use live plants in downtown districts should make worth while a study of the undertaking on a broad basis, rather than individual investigations by park superintendents or other city employees. The volume of nursery stock sales from this source may not be extensive, but the value of trees or other plantings in shopping districts for their impression on prospective customers among the public is highly important.

Some reports of such city plantings have appeared in these columns, or references to such accounts in bulletins or other publications have been made for those interested. This is an instance where success stories are valuable, rather than those of failure; nurserymen who have found solutions to their local community difficulties in these undertakings may contribute to the trade's solution of them in other places by telling of them in these columns. And perhaps downtown city plantings might be made the subject of research projects in one or more of the cooperative college horticultural departments.

HOME BOOM RESUMES

The record of 119,000 nonfarm building starts for August, well above the monthly average of 96,000 for the earlier months of this year, gave contractors a reason to forecast another year of 1,000,000 or more homes constructed. The strong up-

turn in business conditions, plus the high level of consumer buying maintained, lend support to that forecast. Of course, it presages boom business for nurserymen in landscaping new homes and supplying stock for their planting over another few seasons.

NOVELTIES

The merchandising value of novelties is apparent in other fields and in the nursery industry as well. New models in automobiles, changes of style in wearing apparel and other innovations that attract the public's dollars are known to everyone.

Among nurserymen, the introduction of new varieties of rose, camellia, peony, iris and other popular plants command high prices because of their newness and the garden fanciers' interest. Catalog houses in the nursery industry seek headlines each year on which to focus their prospects' attention; when the customers order the headliner they will add to their purchase list the staple plants they desire, it is assumed.

While the sales-making value of novelties is conspicuously exploited in the catalog field, it is given less regard by retail nurserymen and garden center operators. Yet some of them have found a display or an advertisement of a plant novelty just as important in drawing prospects to the nursery as it is in getting catalogs read.

The mounting interest in shrub novelties, for example, is obvious from the advertisements in this magazine, as well as from the occasional articles on newer or less common plants. Information on these items to the trade is paralleled by similar information to the gardening public through magazines devoted to their interests. Advanced amateurs often avail themselves of an opportunity which some nurserymen exercise for themselves and which more ought to exercise; that of inspecting and learning more about new shrubs and trees in the arboreta, which are becoming more numerous in this country. From many of these arboreta it is possible to obtain propagating material of plants not now in the trade or not readily obtained. Retail and wholesale growers would do themselves a service by producing a moderate quantity of these plants in order to take advantage of the merchandising appeal that novelties hold for homeowners desirous of adding interest to landscapes.

Tractor Assembly Simplifies Fumigation

By Gordon Morrison

Valuable nursery acreages sometimes become economically risky for propagation of valuable crops because of weeds, or even hazardous to plants because of nematodes and other menaces to growth and salability of nursery stock. Through the use of a recently developed tractor-borne mobile soil fumigator, such acreages can be restored easily and economically to productive use within weeks or less.

The outright cost may be \$500 to \$600 per acre—mostly for the chemical that is vaporized and the polyethylene plastic that confines the vapor. Even less costly treatments are in view, as recent experiments indicate that a 1-mil polyethylene tarpaulin may be used instead of the 2-mil material used presently. A mechanical means of recovering the plastic undamaged for re-use is also being sought.

Equipment on hand at almost any nursery can be adapted for soil fumigation purposes by means of locally available parts. Thus the soil fumigation operation is well within the capabilities of the usual nursery personnel. Nurserymen who have become familiar with the process declare that \$600 per acre should prove a good investment, making possible economical weed and nematode control and the production of higher-grade plants.

During the absence or near absence of weeds following treatment and for upward of several years (until natural air-borne or water-borne reinfestation suggests retreatment),



Developed by the Dow Chemical Co., this tractor-mounted fumigation assembly applies a gaseous fumigant to the soil while unrolling and automatically sealing a 2-mil polyethylene tarpaulin over the treated area.

the number of nursery plants per acre may be doubled or tripled. Spacings of 42 inches or more between rows may not be needed where weeds are absent or few and far between.

The new tractor-drawn soil fumigant applicator was recently demonstrated in southeastern Michigan. This demonstration and others elsewhere are the culmination of researches and field tests by Dow Chemical Co. technical service personnel—notably John Davidson, Earl Lutz and Charles Reimer—at the company's establishment at Midland, Mich.

The demonstration featured the

use of an ordinary tractor with a commonly used 3-point hitch, along with standard auxiliary fittings. The converted tractor becomes a soil fumigator that travels at about two miles per hour treating a 7-foot strip, more or less, as it goes. The width of the treated strip depends upon the width of the roll of polyethylene plastic that unrolls behind the tractor to become a gasproof tarpaulin. The edges of the plastic are sealed simultaneously and continuously with a furrow of earth.

Fumigant Discharge

The soil fumigant is discharged from a tank mounted on the tractor through hose jets that extend about eight feet under the gasproof tarpaulin, insuring safe application. The fumigant used is liquid Dowfume MC-2, a formulation that contains 98 per cent methyl bromide and 2 per cent chloropicrin. The latter ingredient, similar in effect to tear gas, serves as a warning agent in case of leakage.

Since methyl bromide has a boiling point of 38 degrees Fahrenheit, it is not very effective at temperatures below 60 degrees F. Higher temperatures are preferable. To make the methyl bromide most effective the tractor-borne fumigator includes a propane-heated cylinder enclosing metal coils.

The fumigant becomes heated in these coils during its regulated course under pressure from the tank and is discharged in gaseous form from the



Shown behind the mobile fumigator in this view are the two hoses, about eight feet in length, that release the heavier-than-air fumigant safely under the plastic seal.

trailing jets under the tarpaulin. About four tanks, or 400 pounds, of the liquid are required for an acre.

Alternate Strips Treated

An open field is treated in alternating strips. When the first series of strips has been uncovered after adequate treatment, the alternating strips are fumigated to make a complete job. As treating proceeds, a walking observer can check the soil seal, make adjustments as necessary and help replace exhausted rolls of plastic. Occasional tears in the polyethylene tarpaulin can be sealed promptly with an easily applied patch of pressure-sensitive plastic.

Fumigating material must be handled with caution according to the manufacturer's directions. The gaseous fumigant, heavier than air, diffuses and penetrates well to 10 or 12 inches where soil preparation permits, although soil preparation to eight inches is a commoner and a good practice.

Methyl bromide is quick acting and thorough. However, the gasproof tarpaulin should remain in place for seven or eight hours at least and preferably for 24 to 48 hours. Nurserymen who use this method should be watchful that children or pets do not expose themselves to injury by disturbing the gasproof tarpaulin or crawling under it.

Since hand labor costs may be prohibitive in comparison with the salvage value of polyethylene plastic, it appears now that one can best remove the plastic tarpaulin by slitting it down the center and tearing each sheet from the marginal soil seal.

Methyl bromide gas has such excellent penetrating properties that it destroys promptly unwanted vegetation, soil-inhabiting weed seeds, roots, stolons, nematodes, white grubs, wireworms and other insects and certain plant diseases. It disappears from the soil quickly, leaving a minimum of harmful residue to affect subsequent plant growth.

Research has shown that seeding can be done for a lawn or for turf production within as little as seven or eight hours after removal of the tarpaulin. A longer wait is usually practical and desirable, however. Some crops—notably celery, onions and carnations—require a much longer wait before planting. Onions should be withheld until a year or more after fumigation, according to Michigan State University researchers, who declare that onions are highly intolerant of residues.

On the basis of research, testing and demonstrations, it appears that

this new field fumigation technique is well adapted for labor-saving use in ornamental nurseries, sod and turf farms and in fruit farms.

However, in order to enable soil fumigation to achieve the best results possible, certain cultural precautions must be observed just prior to fumigation and after fumigation.

A field that is scheduled for treatment should be plowed and worked to seedbed condition before the application of the fumigant. The soil should have a temperature of at least 50 degrees F. and should be suitably aerated, moist and workable, as for planting seeds or setting out transplants.

Soil Should Be Moist

Weed seeds of low moisture content are not so vulnerable to vaporized methyl bromide as seeds that have absorbed moisture under moist soil conditions. Thus, if the soil is dry it should not be treated until it has become properly moist for several days through irrigation or rainfall.

Fertilizer intended for the crop should be worked into the soil to the desired depth before treatment. Thus, recultivation of the soil after fumigation can be so shallow that untreated soil will not be brought up from below the depth of fumigation.

Since fumigation by methyl bromide destroys the useful soil bacteria that change unavailable ammonium-borne nitrogen into available nitrate form, it is preferable to furnish nitrogen requirements by means of so-

dium nitrate, for instance, rather than by means of ammonium sulphate.

The usual sources of phosphate and potash can be used. In due time the helpful nitrobacteria population will have become restored in the soil by natural processes, and the use of slow release nitrogen carriers can be resumed.

Retreatment

Retreatment may not be necessary for several years. However, where nematodes and other purely soil-borne menaces are the main problem, there is sure to be reinvasion, particularly from border areas, even though nematodes travel laterally only about a foot per year. Also, there is sure to be reinvasion of any nursery acreage by air-borne, water-borne and traffic-borne weed seeds. It may therefore prove to be an economical practice to refumigate nursery acreages prior to planting a high-value crop that will occupy the land for any length of time.

RETIRING from the nursery business, Henry Meyer recently sold the property of his Hutchinson Nursery, Scarsdale, N. Y., to a builder and moved to Florida.

R. W. LEWIS, former general manager of Laird's Nurseries, Richmond, Va., now operates his own firm, the Lewis Nursery & Landscaping Co., at Belt boulevard and U. S. Route 60, Richmond.

MODEL HOME LANDSCAPING AT FARM PROGRESS SHOW



On view for the more than 215,000 persons who attended the farm progress show held September 24 and 25 near Lafayette, Ind., was this model home, the Prairie Lady X77, with landscaping by H. W. Cultra, Onarga Nursery Co., Onarga, Ill. The low hedge of dwarf yew in the window planter is flanked with Hicks yew on the left and Euonymus patens at the corner. Other corners at the front of the house are accented with Russian olive (far left) and Euonymus alatus. Corner plantings are tied down with Pfitzer and Andorra juniper, the latter being also used along the front walk in combination with winter creeper. Visible at the rear corner is a cotoneaster, and other rear plantings of winter creeper, Euonymus patens, inkberry and Pfitzer juniper are tied together with hedges of dwarf yew. The landscaped house, duplicated in another exhibition at Walnut, Ill., was given further publicity in a 4-page color insert (carrying Onarga advertising) in the Prairie Farmer magazine and through radio broadcasts over station WLS from the model home during the show.

The Modern Garden Center

Charging for Service

By Jack Schneider

One of the things that nursery and garden centers most often give the public today is free service. This includes service from the time the customer comes into the nursery until the time he leaves; service in the store, on the telephone, answering questions. These all take up the nurseryman's time and cost him money. Subtly we should begin establishing some sort of payment for these services so that we will not have to cut down on them.

Chain stores, service stations and many other retail outlets are now selling our products. These establishments sell on the cash-and-carry method; they know little about the product and cannot give information of much value, even if the customer asks for it. Naturally, they can sell cheaper when they offer merchandise under these conditions. Nurseries are going to have to do better than competitors to stay in business. It will be necessary to advertise the fact that nurseries can do a better job for customers and can offer services that other businesses cannot.

Salesman's Time Valuable

The cost of a nursery salesman's time is 4 or 5 cents a minute. If the salesman has to spend 15 minutes talking to a customer in the store or on the telephone, then a fair amount of money is tied up in the sale, and in many cases, no sale is made. Salesmen should endeavor to sell something, even over the telephone. One should try to attract customers into his place of business. If the customer telephones about some particular problem, such as a diseased plant, ask him to bring in a branch or leaf for examination. This brings the customer into the store, where he may see some material he will need. It is a good idea to tell customers the technical names of products and plants when they telephone to enquire about them. This makes customers more dependent on the nurseryman for future information or service, because many cash-and-carry competitors cannot supply such data.

There are some service charges that can be made without offending the customers. One can establish a minimum order of merchandise for delivery. At Orchard Nursery &

Supply, Lafayette, Calif., the minimum is \$5. For delivery of orders of less than \$5 we have a \$1 service charge. The customer usually is not opposed, realizing that it costs money to deliver, and in most cases he will build his order up to the \$5 minimum. If salesmen are positive in their approach, customers accept delivery service charge.

Deliveries

Definite days should be established for delivering. This, again, requires a positive approach. Before the customer says when he would like the material delivered he should be told which day of the week is the regular delivery day. This is the way major department stores operate. They do not let customers tell them when to deliver. The reason why so many nurseries do not have good delivery policies is because they are so lax in their rules. Tactfully tell the customer who calls for a delivery late in an afternoon that the delivery truck has already left for the day and that the next delivery will not be until next week, or two days or whatever schedule has been established. If the customer cannot wait until the next scheduled delivery, he is free to come and pick up his merchandise and he often does. Time, effort and money are saved by this delivery policy.

Renting Equipment

Lawn rollers and fertilizer spreaders can be rented, instead of loaned. Such equipment is expensive to purchase and maintain, and there are occasional losses. We have our rental rates stenciled on the rollers and spreaders as a reminder. This helps to get the equipment back much sooner than if it were loaned for nothing. Respect for the nurseryman and his equipment is gained by charging for the use of these items. Most hardware stores and smaller nurseries do not have many rollers and spreaders to lend; so they can supply only a few customers. If the larger garden centers in an area agree on charging rent, there should be no problem.

Another service charge can be made for potting indoor and outdoor plants. A schedule of charges should be set up for planting in dif-

ferent sizes of tubs. We start with 50 cents for a 10-inch tub and grade to \$2.50 for the 21-inch tub. For potting smaller indoor plants we charge 10, 25 and 50 cents per plant when the container is furnished by the customer. When the customer buys the container from us we do not charge for planting. If we have to go to a customer's home to plant in an indoor planter or a tub that may be too large to bring into the nursery, we charge \$3.50 an hour for our time plus the cost of all materials that go into the planter.

Plant Damage Estimates

There should be a charge for plant damage insurance estimates. Formerly we did this work at no cost. Now we charge \$10 for an estimate and a written report. Insurance companies pay for these estimates, and it is only fair that nurserymen should be paid for their time. There is the possibility that one may be called on to testify in court, and the charge makes the report more official.

It costs the nursery money to maintain charge accounts. Billing and maintaining accounts receivable require trained personnel. There should be a routine policy of billing each month and of following up delinquent accounts. We follow up 60-day overdue accounts with a series of stickers pasted on the bills. After 90 days a telephone call helps to bring in overdue payments. Since charge accounts cost more to maintain, we do have to receive more for our product. People will pay more for the same material when they have the convenience of charging it.

Printed Literature

It is easy to cut the amount of time necessary to complete sales by having printed literature on the care and culture of various plants to give to customers at the time of the sale. Simply tell customers that all the information they need is in the folder and do not go into detail about planting because they will probably forget such details by the time they get home. This booklet plan saves time and effort, and the customer is better off in the end, having information in printed form.

The trend in retail nursery business is to cut the number of free services. Garden centers must advertise their more extensive information, better plants and central location for supplies. They must find ways to charge for services rendered. The charges outlined here are legitimate, and most customers will not object to them if they are instituted tactfully.

Television Advertising

By Clarence E. Lewis

Is television a good medium for nursery, nursery-landscape, florist or garden center advertising? The answer is definitely, "Yes." But there are a few strings which the seller should untie before adventuring. It is doubtful that there is any better way to reach prospective customers, if the program is well planned many weeks in advance of its debut.

Shrubs and trees lend themselves to visual presentation because the viewer can see what is meant by such terms as a dwarf or rounded shrub, or a fine-foliaged tree. The landscape approach can be effectively presented with model home grounds where miniature trees, shrubs, flower borders and terraces may be moved about to show the audience their best placement. Live shrubs can be planted to illustrate the proper method, and bold drawings can augment this and indicate their place in the landscape.

TV advertising need not be confined to selling plants. Bright-packaged fertilizers, fertilizer spreaders, sprayers, pruning tools and many other things not only can be displayed, but also can be properly used. Even a pruning job may be demonstrated, showing what to cut, where to cut and how to hold the shears in the cutting operation.

The "how to" approach is an important consideration in selling a plant, a piece of equipment or an insecticide. To present only a fertilizer name, a shrub or lawn seed is not enough. The viewer must be shown what to do with it as it applies to him as an individual. Planting demonstrations must be repeated two, three or four times, since the first week's program may advertise a tree, the second rosebushes, the third an azalea and the fourth a flowering crab apple.

Program Series Best

Buying time for a spot announcement on TV is not nearly so effective as sponsoring a series of programs on gardening. If a series is to be done, then preprogram plugs must be scheduled for about three or four weeks in advance. This is not the responsibility of the television channel alone, but also that of the nurseryman. Television is not like a magic lamp that brings in customers just by a flip of the dial. The nurseryman should publicize the television program with well-placed

signs and posters in the nursery, with a short advertisement in the local paper and with a television set in the nursery or garden center where customers can view the program. A loud-speaker in the nursery might also be used to announce the program just before it begins.

The public must be told exactly how to reach the advertiser. One of the best ways of doing this is to show on the program a simplified map, including only well-known landmarks and roads, with the nursery or garden center pin-pointed. The map should be briefly explained in order to eliminate any doubt as to how to reach the place and should be shown each week.

If this method of advertising is too expensive for an individual nurseryman, there is no reason why two, three or four nursery owners should not combine their efforts. It would probably be better if the advertisers were spaced about 50 or more miles apart. Some organizations may have more than one outlet, which makes television advertising doubly important to them.

Seek Expert Help

If a nurseryman can advertise on a recognized and established gardening program such as "The Home Gardener," originating in the New York NBC studios, then he is fortunate. Such programs have a fine reputation and a large audience. If this is not possible, then a 15 or 30-minute spot may be obtained in which the nursery owner can set up his show with the advice and aid of experienced television personnel.

The ideal time of year for nursery advertising is from about mid-February to mid-May, for this is when interest in gardening is greatest. A fall program is also a good possibility, from mid-August to mid-October. One may not be able to choose the hour and day for his program, but it should be presented when families are usually home—12 noon or 1 o'clock on Saturday, for instance. Sunday is probably not so good a day as Saturday.

In planning the program and the items to be advertised, the nurseryman should rely on those who have had considerable television experience. A good director can get the show off on the right foot; he knows how to open the program so it will catch and hold the viewers'

attention, and he also knows how to end it so they will want to see it again the next week. Directors are specialists in their field, and they are a cooperative, friendly group.

The items to be advertised should be moderately priced specials that are appropriate for the time of year. For instance, a shade tree can be featured at a special reduced price in March, forsythia in late March or early April and a flowering crab apple during late April. One should not expect to make great profits on a special, but should think of its value in building volume and in attracting buyers to one's place of business. Increased traffic in a nursery or garden center means added sales, not only of other plants, but also of such things as peat moss, fertilizer, pruning shears and insecticides.

Many of these added sales depend on how well the merchandise is displayed. By placing fertilizer, peat moss and other necessary materials with the weekly special, the nurseryman is likely to sell a fair number of these items. It is also important, when a shade tree is featured on television, that a planting operation be performed. During the demonstration, the fundamentals of good planting should be stressed, along with the need of using such supplies as superphosphate and peat moss in the process.

If dormant roses are the special for the week, then pruning shears, insecticides and fungicides can also be stressed with the planting. There should be tie-in products on every program. It is possible that a nurseryman can cosponsor such a show with a peat moss, fertilizer or pest control firm.

Key to Success

A sponsor must do more than advertise, however. An interesting gardening program should be the key to the success of the investment, since it will encourage viewers to watch each week. One type of program that has been used is an organized series on landscaping a small home, based on the assumption that the audiences know little or nothing about good design or the proper placement of plants. A model placed on Styrofoam covered with green burlap can be used in the presentation.

Since shade trees are a good beginning point in landscaping, they might be used as the sales feature for the first week. Miniature trees can be placed on the model to show viewers where shade trees provide the best shade or most effectively

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New Planter Increases Production In Nursery

A new self-propelled planter designed and built at the Wood-Howell Nurseries, Bristol, Va., has made it possible for a driver and a 4-man planting crew to achieve a production of 22,000 plants in a 10-hour day. Powered by a Wisconsin air-cooled engine of 16.8 horsepower, the planter assures perfect spacing and alignment of plants and also precision as to planting depth.

Like a steam roller, the planter is steered by means of a small cylinder at the front; a larger hollow cylinder toward the rear makes eight rows of evenly spaced holes for planting. The holes are imprinted, rather than dug, in the prepared earth by lugs resembling inverted flowerpots on the surface of the cylinder.

Seven feet long and two feet in diameter, the rear cylinder is weighted by water placed within it. By varying the quantity of this water ballast, the operator can control the depth to which the lugs penetrate the earth and thus control the depth and diameter of the planting holes.

The 4-man planting crew rides on a bench at the rear of the planter, with flats of plants that have been knocked out of pots resting on a rack



Four men seated on the bench of this planter, developed and built by Wood-Howell Nurseries, Inc., Bristol, Va., can set out up to 22,000 plants per 10-hour day planting eight perfectly aligned rows at once. Wheels at the side are lowered by the driver for turning or for transportation to and from the planting site.

in front of them. Taking the plants from the flats, the workers place the potted balls into the imprints made by the lugged cylinder and firm the plants with their fingers. Each of the four men plants two rows. The slanted rack built on the planter holds several flats, so that when one flat is emptied another can be lifted down to take its place.

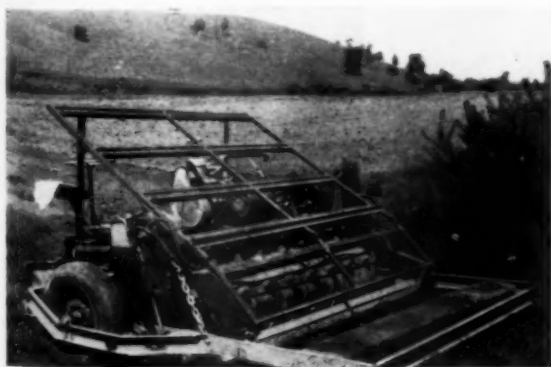
The driver, who stands or sits at the wheel mounted on a pipe framework at the front of the planter, steers the machine and regulates its speed. He also operates the hydraulic lift that controls two auxiliary wheels, one on either side of the planter. These are lowered for turning or for traveling to or from the planting site.

Although the gearing on the planter is rather slow, Owen G. Wood, president of Wood-Howell Nurseries, states that it allows an average planting rate of one plant per second during uninterrupted operation. How-

ever, frequent stops are necessary for loading plants and turning, so that the best production obtained at the nursery to date is 22,000 plants in a 10-hour day.

According to Mr. Wood, one man following the planter can do the small amount of straightening required as fast as the machine operates, leaving the rows ready for mulching and irrigation. Mr. Wood also states that the planter can be used for nursery row planting, with the plants being set in three rows, three and one-half feet apart, and spaced within the rows at any multiple of two inches, within the limitations of the 2-foot diameter of the cylinder.

GEORGE S. BANKS has expanded his wholesale nursery business at Bogalusa, La., to include a flower shop and is now operating as Banks' Nursery & Flower Shop.



Evenly spaced holes of the correct diameter and depth for the material being planted are made by the tapered lugs on the water-weighted cylinder visible above.



Plants, knocked out of pots, are firmed into their holes by the planting crew, each man planting two rows. A slanting rack keeps flats of plants within reach.

Landscaping In Caracas

**A Nurseryman Gives His Impressions of
Planting in a South American Country**



A tree in the walled garden of a Caracas, Venezuela, home shades an open grillwork wall on the second floor. Sansevierias are planted along the exterior wall.

After a recent visit to Caracas, Venezuela, Al Goldner, Goldner-Walsh Nursery Sales Co., Birmingham, Mich., reported on the development of landscaping there. He found great interest in the field there and an informality of style, as in many parts of the United States.

Mr. Goldner reports that Caracas has almost perfect weather, with an year-round average of 72 degrees Fahrenheit. The city, itself, about 12 miles from the ocean and 3,500 feet above sea level, is surrounded by a high mountain range. He says that every morning is like a north-eastern June morning and the evenings resemble October weather. Plants used in Caracas gardens are similar to those used in the southern part of Florida, near Miami.

The people are conscious of the value of landscaping for home beautification and frequently take much trouble to preserve a well-liked shrub

or tree. A large tree growing in the center of a well-traveled residential street has no auto injury scars on its trunk.

Inhabitants of the city know how to utilize small areas for their gardens. Since most of Caracas is built on mountain slopes, there is not much level ground. One ingenious gardener used half of his 2-car carport to display a planting of begonias. An average back-yard garden has lawn space framed by a steep slope on which are planted seasonal flowers, as well as shrubs and small trees. Boulders are often used for a natural setting. Lawns are usually St. Augustine grass.

Outdoor Living

Outside living is practiced in Caracas because of the lack of flying insects and the absence of blowing rain. Rain falls straight down, which enables architects to design rooms

with open grillwork walls. One typical private walled garden has a large specimen tree which shades the open grillwork of the second-floor window and sansevierias planted on the exterior stone wall.

Elaborate stone construction impresses the visitor to Caracas. Most houses have extensive stonework, including panels, walls and steps making a design. Stonemasons are from Spain and Italy and are quite skilled. Stairs are essential in hilly residential sections, and they are often constructed impressively.

Public parks are many and well landscaped and maintained. Confederation park, one of the oldest in Caracas, is located on a hill overlooking the city. It is designed with a series of terraces and a winding road leading to the top of the hill. The formal gardens, designed in clipped shrubs and low-growing

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Stone, much used in Caracas architecture, combines well with plants.



Stairways in the hilly city are constructed and planted impressively.



Formal gardens are well tended in the public parks of Caracas.

What's New in Rabbit Repellents?

By Robert H. Brewster

Rabbit damage is sporadic and can often become severe overnight, especially when heavy snow is on the ground or in drought periods when forage is scarce. Nurserymen can take precautions, however, in preventing rabbits from injuring their nursery stock. Several new rabbit repellents seem promising. They allow a rabbit to take only one or two bites. Because of the objectionable taste, the rabbits generally leave the entire plant alone.

A new rabbit repellent, trinitrobenzene aniline (sold as Ringwood Repellent and under other names), has been effective for some Long Island nurserymen. They report that this material may be expensive. They apply it with a paint brush, although it may be sprayed. It should only be applied to dormant deciduous trees and shrubs, as it is phytotoxic and will injure evergreens. This clear material can be harmful to humans if it is swallowed, absorbed by the skin or inhaled. Most government agencies that have tested the material have only glowing remarks about it as a repellent.

Thiram Formulations

A rabbit repellent which has been giving good results for the United States fish and wildlife service is thiram mixed with a latex sticking agent (Arasan, Tersan, etc.). Mixtures with these ingredients are expected to be available this fall in small quart lots from various formulators of agricultural pesticides.

The thiram treatment, when applied either with a brush or as a spray, is relatively inexpensive. One quart of this mixture will brush coat 25 trees one inch in diameter. Such materials also have long shelf life.

For thin-twigged nursery stock, spraying is the best method of application. This solution should be mixed thoroughly before it is put into the sprayer and it should be strained through at least a 50-mesh screen. Some nurserymen report that Tersan 75 seems to be more sprayable than Arasan AF-X. The thiram-latex solutions congeal rapidly, so they should be mixed and sprayed immediately. Apparently there is no solvent which will remove them easily.

The thiram materials will repel not only rabbits but deer also. These formulas are effective against rabbits for at least one season and do not

leave an objectionable residue detectable by customers the following spring.

For large nurseries or for nurserymen who want to do a perfect spray job on new growth of small-stemmed hardwoods and small conifers, thickening and/or defoaming agents may also be used. The United States fish and wildlife service suggests methocel and hexadecariol-ethanol. Only small quantities are needed, but, unfortunately, either one is available only in large quantities. One manufacturer of both products is the Hubbard Hall Chemical Co., Waterbury, Conn.

New Repellents

TAT-GO, a product of O. E. Linck Co., Inc., Clifton, N. J., is available in experimental lots. It contains thiram, and its new sticking

ORNAMENTALS FREQUENTLY EATEN BY RABBITS

Plant where they can be protected: Red, swamp or scarlet maple; dogwood; winged euonymus; apple; Austrian pine; Douglas fir; firethorn; Chinese elm; sugar, hard or rock maple; red chokeberry; hazelnut; Morrow honeysuckle; Norway spruce; Scotch pine; apricot; peach; and pear.

ORNAMENTALS SOMETIMES EATEN BY RABBITS

Three of the best examples of plants which rabbits may feed on in one area and may not touch in another are eastern red cedar, white pine and smooth sumac.

NATIVE PLANTS EATEN BY RABBITS

Tatarian maple; wild black cherry; staghorn sumac; and tamarack, or American larch.

NATIVE PLANTS UNTOUCHED BY RABBITS

Box elder; mountain maple; pagoda dogwood; persimmon; walnut; wild honeysuckle; chokeberry; currants, and Chinese jujube.

ORNAMENTALS THAT RABBITS RARELY TOUCH

These do not need rabbit repellents: Black chokeberry; gray birch; common juniper; tatarian honeysuckle; spruce; northern red oak; snowberry or waxberry; lilac, and hemlock.

agent is being tested by various agricultural experiment stations. The manufacturer has been granted label clearance to state that it repels rabbits and deer as well as mice.

ZAC is another excellent repellent expected to be available this fall in quart lots. It is available under the trade name Z. I. P. from the Pano-gen Co., Ringwood, Ill. An agricul-

tural pesticide formulator is experimenting with ZAC as an aerosol for home use.

Nurserymen who have tested a repellent successfully should be careful in purchasing a revised formulation to treat entire nurseries. Changes in sticking agents, or emulsions substituted for wettable powders, may harm some nursery plants or may not repel so long or so well as the original tested. Experiments on small areas and various nursery plants are suggested first.

All the foregoing materials may be applied as sprays. They range in price from \$3 to \$12 a gallon. If they require mixing, they should be strained before being placed in the sprayer. Nozzles should be as narrow as possible for economy in the use of the materials, but wide enough to prevent clogging. It is not an ordinary spray job and requires uniform supervision of trained personnel.

A United States Department of Agriculture leaflet suggests still another rabbit repellent, an asphalt water emulsion plus thiram (trade names: Arasan 75, 42-S or SF-X; Tersan 75; Tersan turf fungicide, etc.). Most of these materials may be readily available in the midwest and far west, but asphalt water emulsion is difficult for eastern nurserymen to obtain. It is available in the east as Hydralt Emulsion C-13-H PC from the Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y., or as Tree Seal from the Glidden Co., 52 Vanderbilt Avenue, New York, N. Y. Building supply dealers may also carry it.

Useful As Paint

Long Island nurserymen have found it to be useful as a paint, but not as a spray. For a paint mix or brush application, one gallon of asphalt water emulsion is mixed with two gallons of water. Then the nurseryman stirs in four pounds of Arasan. When all of this material is mixed together thoroughly, it makes about three and one-half gallons of black paint.

E. I. duPont de Nemours Co., Inc., manufacturer of thiram (trade names: Arasan 42-S, Arasan AF-X, Tersan 75, Tersan turf fungicide, etc.) uses slightly different formulas, but those given here are recommended by the United States De-

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Efficient Media for Plant Propagation

By James S. Wells

If one listens to a group of plant propagators discussing their work, it quickly becomes apparent that plants can be successfully propagated in almost any kind of medium. In the past few years, I have heard people say that they are rooting cuttings in coarse sand, fine sand, alkaline sand, acid sand, sawdust (new and old), cinders, fly ash, peat, vermiculite, perlite, sphagnum moss and, on occasion, mixtures of all of these. The more the new grower listens to propagators, the more confused he can become. The advice I once heard given by an excellent propagator, "Continue with what works well with you," is indeed obvious. For many years, I have been more or less content to do little experimenting with media, but some work that I have done over the past two or three years at my nursery at Red Bank, N. J., does seem to indicate that, with some plants under certain conditions, the medium can be of greater importance than was once thought.

Basic Medium

The medium is essentially something in which a cutting can be held in a normal upright position and which can retain sufficient moisture to keep the cutting material healthy and turgid until it has time to reorganize the cells at the base of the cutting and produce a new root system. In almost any propagation textbook, the standard medium for many years has been plain, washed, sharp sand, and for a wide variety of plants this still remains one of the best media to use. It is, perhaps, desirable to define what is meant by "sharp."

Sharp refers to the size and shape of the individual particles that make up the aggregate of the medium. A medium must provide a good anchorage for a cutting. It must hold sufficient water to keep the cutting healthy and, on the other hand, it must provide adequate drainage, so that stagnant water is not held in suspension in the medium. This is of great importance, particularly under conditions of high humidity or intermittent misting. It stands to reason that sand which is composed largely of fine particles will retain a substantial amount of water, and certain cuttings will not respond to this condition, which might almost be described as waterlogged.

Most propagators, therefore, pre-

fer to use what they call a "sharp" sand, which is composed largely of fairly coarse particles, somewhat similar in size and texture to old-fashioned brown sugar. Such sand usually has rather angular particles which, while they can be quite firmly packed down, do not settle together and form a closely packed medium, which would hold too much water. Good drainage is thereby assured, and good drainage is an essential quality for any rooting medium. Formerly propagators, being prepared to apply water frequently by hand, were more concerned that the medium should drain well than that it should hold water. They felt that they could obtain better results if the medium would drain well, while they would see that adequate water to maintain the cutting in a healthy condition was applied from above.

With the advent of modern misting methods, the need for good drainage is even more important than it was in the past, and this may, in part, be the cause of some of the failures which have been reported under misting. A wide variety of plant material can be rooted well in the standard medium of plain, sharp sand. If a sand of this nature is not immediately available, then good results can be obtained from a fairly coarse-grade plaster sand if care is taken to insure that the sand drains satisfactorily.

Certain plants respond better to a mixture than to a straight medium. This is particularly true of most of the ericaceous plants, such as rhododendrons, azaleas and ericas. All of these root much better if at least 50 per cent of the medium is an acid peat. Because of this, a sand-peat mixture has become a second standard medium for many nurserymen.

It is excellent for most of the hollies, both English and American, and it is an absolute essential for azaleas if good results are to be obtained. Azaleas can be rooted in plain sand, but much better results will follow if a 50-50 sand-peat mixture is used.

Rooting Difficult Plants

Rooting Koster blue spruce in plain perlite has been reported. Perlite is a coarse, granular mineral which is used as a plaster aggregate and it usually can be obtained from a local building merchant. Perlite is used by many nurserymen and, in

conjunction with sand, peat and—in some instances—vermiculite, has proved a superior medium to anything previously used.

For ordinary plants the finer distinctions of medium are unnecessary. For instance, *Thuja pyramidalis* will root well in plain sand. It will root equally well in a mixture of 25 per cent peat and 75 per cent sand, but it is unnecessary to go to the trouble of mixing these materials, since the plants root as well in plain sand as in the mix.

For plants that are difficult to root, such as blue spruce, rhododendrons, some of the conifers and others now being regularly propagated by cuttings, the standard medium is not always adequate, and better results are obtained with specialized mixes. A grower must learn the conditions that the plant requires for optimum results.

Rooting Rhododendrons

For rooting rhododendron cuttings I found plain sand not so satisfactory as a mixture of sand and peat. The greater the proportion of peat, the better was the rooting. I have rooted excellent stands of rhododendrons in plain peat, but the cuttings are difficult to remove from the bed when they are well rooted, which is the only reason for adding a small amount of sand to the mixture.

For some years, I maintained production of rhododendrons in the standard medium of 90 per cent peat and 10 per cent coarse, sharp sand. Last year a small test was made, following a report in the *Horticultural Journal* on the use of perlite and perlite-peat in the rooting of citrus cuttings. Used for the test were one bench of the standard peat-sand mixture and another bench of 70 per cent peat and 30 per cent perlite. Half the cuttings of each variety were inserted in one medium and half in the other, and three to four months later, when the batches of cuttings were lifted, it was found that, with one or two minor exceptions, all varieties rooted better in the peat-perlite medium. Cuttings stuck in peat-perlite this season on a nonexperimental basis have rooted more rapidly, grown with greater vigor and formed a larger ball of roots than under former conditions.

I have been able to move cuttings in and out of the bench more

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A New Method of Packing Fruit Trees

By Homer S. Kemp

At Bountiful Ridge Nurseries, Princess Ann, Md., the management has adopted a new method of packing volume orders of fruit trees, which is resulting in consistently good arrival condition and savings in packaging costs.

As have most nurserymen, we of this firm have felt the effects of constantly mounting freight rates and shipping costs. In addition, the corrugated shipping box that we had been using was not giving us dependable performance; so we began to look for a more satisfactory and economical way of delivering volume orders of trees in better condition. After discussing this problem with representatives of the Jersey Package Co., Bridgeton, N. J. (our source for wire-bound strawberry plant crates), we decided to try extendable wire-bound boxes similar to those being used to package industrial products of various lengths.

In surveying our package requirements, we found that we could have complete flexibility in box lengths by using two basic lengths—three feet and four feet. Our packers are able to form boxes up to 12 feet long by joining three 4-foot lengths. When we need a 7-foot box, we attach a 3-foot box blank to a 4-foot blank; if an 11-foot box is needed, two 4-foot blanks and one 3-foot blank are joined. A pair of 24x24-inch ends completes the box.

To form long boxes, the worker

securely joins adjacent wood cleats on individual box blanks with special steel wire loops. The prefabricated ends are then attached simply by bending the end wires around the outside cleats on the extended box blank. One man, using a simple hand tool, is able to set up an 11-foot box for packing in less than 20 minutes.

Packing Cradle

The assembled box is placed in a packing cradle, devised at the nursery, to keep the container off the ground during packing, limit the amount of bulge and afford a means of inserting a lifting bar under the box after it has been filled. The same cradle accommodates different lengths of boxes.

The box is lined with paper before the trees are placed inside, one layer at a time. The layers are staggered to prevent voids, and the packers often "walk" each layer (they wear rubber-soled footwear) to insure a solid, compact load. A mixture of moss and cedar shingle shavings is thrown in to retain moisture. Once the box has been filled, the top is swung over into place and securely fastened by engaging the loops at the closing edge with a small hand tool.

Steel Straps Used

Thin steel straps fastened girthwise around each box further reinforce it and also help prevent pilferage. A box made from a single



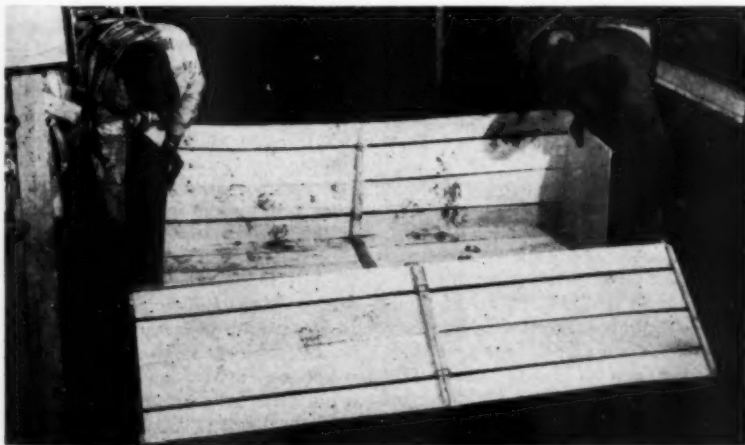
Members of the Kemp family demonstrate the strength of an 11-foot box after it has been packed.

blank carries two straps; multibank boxes carry an additional strap over each joint. Finally the box is weighed and put aside to await shipment. One recent shipment to Michigan of 2,500 apple and peach trees, weighing 2,059 pounds, was packed in five extendable wire-bound boxes of different lengths.

Bountiful Ridge Nurseries have always been interested in having good shipping containers, as they shipped quantities of trees to Iraq, Syria, France, Canada, Italy, Mexico and South America. Nematode-resistant fruit tree rootstocks have been shipped to many sections of the world where nematode infestation is a problem.

Nailed wooden boxes were originally used to carry this nursery's stock. The boxes were made by full-time carpenters and were heavy and

[Continued on page 102]



End pieces are fastened in place, and combined box lengths, or blanks, are folded around them to form the wire-bound box. Notice the steel loops joining the two blanks.



With box resting in packing cradle, workers fasten loops formed by steel binding wires to close lid.

Pinus Aristata, the Incredible Conifer

By Andrew W. Sherwood

The road led upward through the valley heat, twisting through the bottom of the dry canyon, as our party began a trip up California's White mountain to view a remote stand of *Pinus aristata*, bristlecone pine. The sparse canyon vegetation was mostly sagebrush. Anxiously we watched the climbing gauge of our Travelall hovering on the boiling point and stopped in the only shade seen so far, the lee of an overhanging rock, to let our car simmer down.

Once more on our way, we passed between rock walls that closed in so tightly on either side we almost scraped them in our tortuous ascent. Then we left the blacktop, and the road became more crooked, dusty and rough. We shifted from second to low gear as we climbed through stands of mountain mahogany, cactus and low-growing nut pines. He who would see the bristlecones must always climb, because they are true high-mountain conifers, unique among trees.

At times we shifted from low to compound gear as our straining car lifted us skyward. Presently the whole Sierra range of a multitude of snow peaks lay in full view on our left. The nut pines and mahogany dropped away, to be replaced with small, twisted whitebark pines. Finally, as our altimeter showed an elevation of 9,500 feet, the bristlecones started coming into view. From there to the summit, where our altimeter registered 11,700 feet, the bristlecones predominate on California's White mountain, on the Nevada line.

In Reserved Area

In many explorations we have never seen them growing below a 9,500-foot elevation. This time we found them guarded in an area already set aside by law, protected as they should be, because here is the largest known bristlecone pine, the oldest known living thing. On this rolling summit, as on other peaks in their limited range, they are found singly or in open, scattered groves, frequently so evenly spaced that the distance almost appears measured. The largest one standing near White mountain's summit is about 40 feet high, with a tremendous girth equal to its height.

The oldest trees stand along Methuselah Walk, at an elevation of 10,000 feet, so we shouldered our cameras and started scrambling over

the steep rocky trail, through heat that shimmered in waves from every rock and boulder. At the head of a draw we entered a scattered grove of bristlecones. Once again, as always in the past, we were awed when strolling among these oldest living things.

Many of these trees have been growing in this dry, rocky waste for the incredible time of nearly 45 centuries. The scant 500 years since Columbus discovered America scarcely count in their life span. They were venerable 2,500-year-old trees when Christ walked the earth. They had already reached the age of 15 centuries when the oldest sequoia was a seedling. They had reached the ordinarily ripe old age



On their native mountaintops, the bristlecone pines, both living and dead, have a striking beauty.

of 2,000 years when Alexander the Great was a conquering hero. The Great Pyramid of Giza had been built only a short time when they began their lives.

Look Their Age

What is the appearance of these tremendously old pines? Do they look their age? They certainly do. They reach up only 15 to 25 feet, with extremely large trunks for their height. We saw trees four feet high with the age of 1,000 years. The oldest ones have only a little life on one side. They are twisted, bent away from the winter blasts, gnarled and amazingly beautiful. Living with scarcely any soil or water through blistering sun, wind and cold, they

are lustrous green in a gray wasteland.

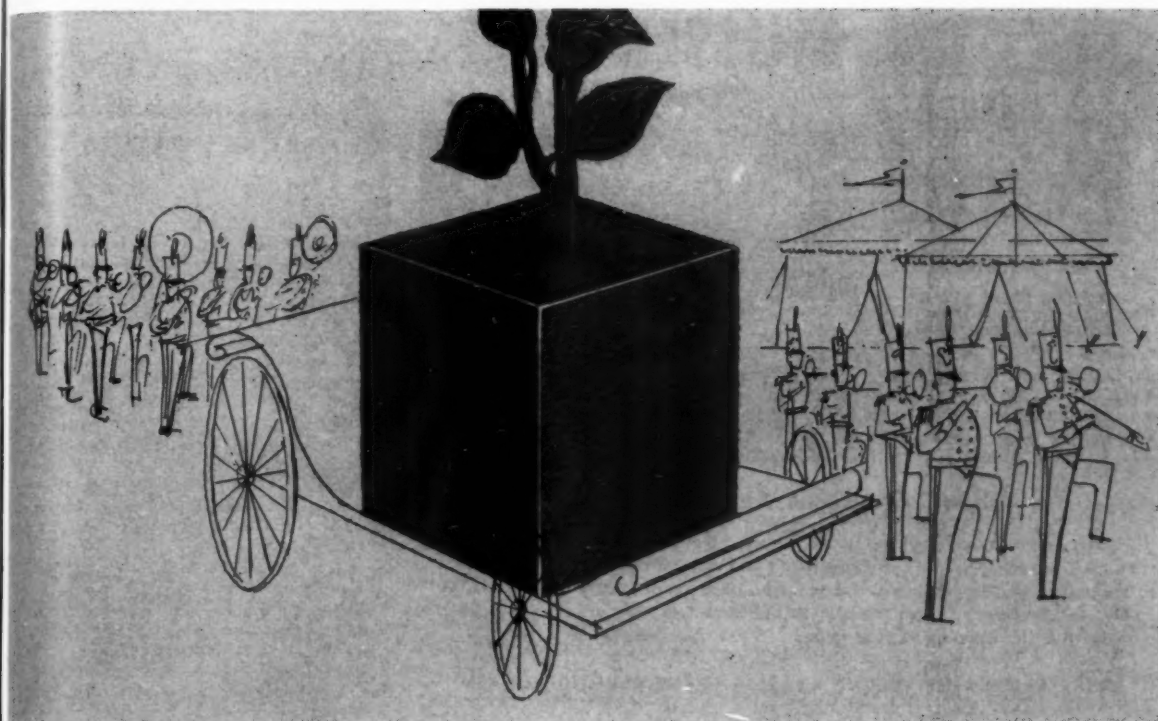
Dead trees are strikingly beautiful and often remain standing for probably 1,000 years after death. There is no rot or decay, no fungous deterioration in this area. Therefore, these amber-white dead pines stand until they become long, sharp slivers, dried by the sun and worn by the constant sand-blasting wind. Once in a group I spent three days among the bristlecones atop another peak. The wind was blowing when we came and it never ceased its roar during the entire time we were there. It tore at the rocks, screamed against the cliffs, reached a crescendo of sound among the pines. The sky and the ground seemed filled with the roar of it, a terrible river of air, tearing and slashing against anything in its way. Skin soon dried and wrinkled, and lips cracked. It did not bother the bristlecones. They just weathered it as they had thousands of other such storms.

Culture

In the growing of nearly a million of these trees, I have learned many things about them. They dwell at all elevations from sea level to 12,000 feet. In the nursery a 2-foot tree develops in seven years. *Pinus aristata* withstands a temperature range of over 150 degrees (from 50 degrees below zero to over 100 degrees). In its natural habitat it is often subjected to the extreme desert humidity of only 2 or 3 per cent. Amazingly, it grows beautifully along the coast, where the humidity often rises to 70 to 80 per cent.

It holds its needles for 20 years, which is more than three times as long as the average conifer. Foliage is uncommonly dense and dark green. Needles are about two inches long, completely clothe the branches and often are speckled with pitch exudations resembling frost.

The bristlecone develops a fine root system and moves readily, even though its native home affords no soil, only rock, gravel or dolomite. It is without peer as a dwarfing or bonsai subject. With slight pruning, it becomes as slender as a pyramidal arborvitae or, if topped back when young, it will spread laterally almost like a creeping juniper. Many years of work with *Pinus aristata* has only enhanced my deep appreciation for this amazingly adaptable conifer.



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3-yr., S., 8 to 16 ins.....	9.00	45.00			
4-yr., T., 8 to 12 ins.....	20.00	100.00			
● MUGHO PINE					
3-yr., S., 3 to 5 ins.....	7.00	35.00			
5-yr., T., 4 to 8 ins.....	20.00	100.00			
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2-yr., S., 3 to 6 ins.....	5.00	25.00			
3-yr., S., 8 to 14 ins.....	9.00	45.00			
● BLACK HILLS SPRUCE					
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5-yr., T., 8 to 12 ins.....	24.00	120.00			
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3-yr., S., 8 to 12 ins.....	10.00	50.00			
3-yr., T., 6 to 12 ins.....	13.00	65.00			
5-yr., T., 12 to 18 ins.....	25.00	125.00			
● WHITE SPRUCE					
3-yr., S., 5 to 12 ins.....	9.00	45.00			
4-yr., T., 10 to 15 ins.....	18.00	90.00			
● COLORADO BLUE SPRUCE					
3-yr., S., 4 to 8 ins.....	9.00	45.00			
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● CANADIAN HEMLOCK					
2-yr., S., 4 to 8 ins.....	10.00	50.00			
3-yr., S., 8 to 14 ins.....	24.00	120.00			
5-yr., T., 8 to 14 ins.....	40.00	200.00			
● CONCOLOR FIR					
2-yr., S., 3 to 6 ins.....	9.00	45.00			
● JAPANESE YEW					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.....	\$20.00	\$150.00			
3-yr., S., 4 to 8 ins.....	30.00	200.00			
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.....	20.00	150.00			
2-yr., T., 6 to 8 ins.....	30.00	250.00			
3-yr., T., 8 to 12 ins.....	40.00	350.00			
<i>Taxus hicksii—upright</i>					
1-yr., T., 5 to 7 ins.....	25.00	175.00			
2-yr., T., 8 to 12 ins.....	40.00	300.00			
<i>Taxus brownii—upright</i>					
1-yr., T., 4 to 6 ins.....	25.00	175.00			
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● JUNIPER HETZI GLAUCA					
1-yr., T., 5 to 7 ins.....	25.00	200.00			
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<i>Woodwardi—dark green</i>					
1-yr., T., 4 to 6 ins.....	30.00	250.00			
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1-yr., T., 4 to 6 ins.....	30.00	250.00			
● PYRAMIDAL ARBORVITAE—Compacta					
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● JAPANESE HOLLY					
<i>Ilex retundifolia</i>					
1-yr., T., 5 to 6 ins.....	20.00	150.00			
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COMING EVENTS

MEETING CALENDAR

November 13 and 14—Holly Society of America, 25th meeting, Hotel Jefferson, Richmond, Va.

November 16 to 18—New Jersey Federation of Shade Tree Commissions, New Jersey Society of Certified Tree Experts and the Arborists Association of New Jersey, joint annual meeting, Haddon-Hall hotel, Atlantic City, N. J.

December 1 and 2—Minnesota State Nurserymen's Association, annual convention, Curtis hotel, Minneapolis, Minn.

December 3 to 5—Wisconsin Nurserymen's Association, annual meeting, Hotel Schroeder, Milwaukee, Wis.

December 3 to 5—New York State Nurserymen's Association, short course, Cornell University, Ithaca, N. Y.

December 4 to 6—Plant Propagators Society, annual meeting, Wade Park Manor hotel, Cleveland, O.

December 8 and 9—Nebraska Association of Nurserymen, annual convention, Cornhusker hotel, Lincoln, Neb.

December 9 and 10—Arizona Nurserymen's Association, annual meeting, Arizona State College, Tempe, Ariz.

December 30—Connecticut Nurserymen's Association, annual meeting, Waverly Inn, Cheshire, Conn.

January 4 to 6, 1959—North Carolina Association of Nurserymen, winter meeting, College Union, North Carolina State College, Raleigh, N. C.

January 5 to 7—Indiana Association of Nurserymen, winter meeting, Purdue Memorial Union, Purdue University, West Lafayette, Ind.

January 7—Sixth annual conference in landscape architecture for Iowa nurserymen, Memorial Union, Iowa State College, Ames, Ia.

January 7 to 9—Indiana Arborist's Association, annual meeting, Memorial Center, Purdue University, Lafayette, Ind.

January 7 to 9—Western Association of Nurserymen, annual convention, Hotel Bellerive, Kansas City, Mo.

January 8 and 9—Oregon Association of Nurserymen, annual convention, Hotel Eugene, Eugene, Ore.

January 8 to 10—Iowa Nurserymen's Association, annual convention, Hotel Kirkwood, Des Moines, Ia.

January 11 to 13—New York State Arborists' Association, short course, Cornell University, Ithaca, N. Y.

January 12—National Mail Order Nurserymen's Association, Inc., winter meeting, Douglas room, Hotel La Salle, Chicago, Ill.

January 12 to 14—Illinois State Nurserymen's Association, winter convention, Hotel La Salle, Chicago, Ill.

January 19 to 21—Ohio short course for nurserymen, landscape gardeners and arborists, Columbus, O.

January 22 to 23—New Jersey Association of Nurserymen, winter meeting, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

[Continued on page 22]



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 - * * FORT VANCOUVER
 - * * Forty-Niner
 - * * Fred Edmunds
 - * * Fred Howard
 - * * Golden Masterpiece
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 - * * Mojave
 - * * New Yorker
 - * * Nocturne
 - * * OREGON CENTENNIAL
 - * * Peace
 - * * PINK FAVORITE
 - * * Pink Frost
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 - * * Circus
 - * * ENCORE
 - * * Fashion
 - * * Fusilier
 - * * Gold Cup
 - * * Goldilocks
 - * * Ivory Fashion
 - * * Jiminy Cricket
 - * * Ma Perkins
 - * * Pinkie
 - * * Pinocchio
 - * * Red Pinocchio
 - * * Spartan

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 - * * White Bouquet

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AMERICAN ARBORVITAE VARIETIES

(*Thuja occidentalis*)

	Per 10	Per 100
Dark Green American Arborvitae		
30 to 36 ins.	\$2.25	\$2.00
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.50	3.00
Compacta erecta globosa Arborvitae		
15 to 18 ins.	1.60	1.40
18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.60
Globosa (American Globe) Arborvitae		
12 to 15 ins.	1.45	1.25
15 to 18 ins.	1.80	1.60
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Pyramidal American Arborvitae		
18 to 24 ins.	1.60	1.35
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
5 to 6 ft.	4.50	4.25

ORIENTAL ARBORVITAE VARIETIES

(*Thuja orientalis*)

	Per 10	Per 100
Baker Arborvitae		
2 to 3 ft.	\$1.40	\$1.35
3 to 4 ft.	2.00	1.75
4 to 5 ft.	2.50	2.25
Berchmans Arborvitae		
15 to 18 ins.	1.40	1.20
18 to 24 ins.	1.70	1.50
24 to 30 ins.	2.25	2.00
30 to 36 ins.	2.75	2.50
Blue Cone Arborvitae		
18 to 24 ins.	1.20	1.00
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
Bonita Arborvitae		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.65	1.50
24 to 30 ins.	2.25	2.00
30 to 36 ins.	2.75	2.50
Excelsa Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50
Fruittlandi Arborvitae		
18 to 24 ins.	1.40	1.25
24 to 30 ins.	1.70	1.50
30 to 36 ins.	2.25	2.00
Golden Ball Arborvitae		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.50	1.35
Newark Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50
3 to 4 ft.	2.25	2.00
4 to 5 ft.	2.75	2.50

JUNIPERS, SPREADING VARIETIES

	Per 10	Per 100		Per 10	Per 100
Andorra Juniper			Hetz Blue Juniper		
15 to 18 ins.	\$1.60	\$1.40	15 to 18 ins.	\$1.45	\$1.25
18 to 24 ins.	1.90	1.75	18 to 24 ins.	2.00	1.80
24 to 30 ins.	2.50	2.25	24 to 30 ins.	2.50	2.25
			30 to 36 ins.	3.00	2.75
Andorra Juniper, green			Savin Juniper		
15 to 18 ins.	1.60	1.40	12 to 15 ins.	1.00	0.90
18 to 24 ins.	1.90	1.75	15 to 18 ins.	1.35	1.20
24 to 30 ins.	2.50	2.25	18 to 24 ins.	1.75	1.60
Meyer Juniper			Von Ehrh Juniper		
15 to 18 ins.	1.75	1.50	15 to 18 ins.	1.35	1.20
			18 to 24 ins.	1.75	1.60
Pfitzer Juniper			24 to 30 ins.	2.25	2.00
12 to 15 ins.	1.25	1.10	30 to 36 ins.	2.75	2.50
15 to 18 ins.	1.65	1.50			
18 to 24 ins.	2.20	2.00	Sargent Juniper (sargentii)		
24 to 30 ins.	2.75	2.50	12 to 15 ins.	1.25	1.10
30 to 36 ins.	3.25	3.00	15 to 18 ins.	1.65	1.50
Pfitzer Blue Juniper			Repandens Juniper		
15 to 18 ins.	1.65	1.50	(<i>Virginiana repandens</i>), dark green, good winter color		
18 to 24 ins.	2.25	2.00	12 to 15 ins.	1.00	0.90
Compact Pfitzer Juniper			15 to 18 ins.	1.35	1.20
12 to 15 ins.	1.25	1.10	18 to 24 ins.	1.75	1.60
15 to 18 ins.	1.65	1.50			
18 to 24 ins.	2.20	2.00	Virginiana Juniper		
24 to 30 ins.	2.75	2.50	Vase-shaped, light green		
Pfitzer Nana Juniper			15 to 18 ins.	1.35	1.20
12 to 15 ins.	1.25	1.10	18 to 24 ins.	1.75	1.60
15 to 18 ins.	1.65	1.50	24 to 30 ins.	2.25	2.00
18 to 24 ins.	2.20	2.00			

JUNIPERS, UPRIGHT VARIETIES

	Per 10	Per 100		Per 10	Per 100
Juniperus virginiana glauca			Fastigiata Juniper		
2 to 3 ft.	\$2.75	\$2.50	24 to 30 ins.	\$1.10	\$1.00
3 to 4 ft.	3.75	3.50	30 to 36 ins.	1.40	1.25
4 to 5 ft.	4.75	4.50	3 to 4 ft.	1.65	1.50
			4 to 5 ft.	2.25	2.00
Juniperus virginiana burki			Greek Juniper		
2 to 3 ft.	2.75	2.50	(<i>Juniperus excelsa stricta</i>)		
3 to 4 ft.	3.75	3.50	15 to 18 ins.	1.25	1.10
			18 to 24 ins.	1.65	1.50
Juniperus virginiana canaerti			24 to 30 ins.	2.25	2.00
2 to 3 ft.	2.75	2.50	30 to 36 ins.	3.00	2.75
3 to 4 ft.	3.75	3.50			
4 to 5 ft.	4.75	4.50	Hetz glauca Juniper, pyramids		
Cupressifolia Juniper			(<i>Hetz Glauca</i>), staked and trained to pyramids		
(<i>Hillspire Juniper</i>)			24 to 30 ins.	2.25	2.00
2 to 3 ft.	2.75	2.50	30 to 36 ins.	3.00	2.75
3 to 4 ft.	3.75	3.50	3 to 4 ft.	3.75	3.50
Dundee Juniper			Mascula Juniper		
2 to 3 ft.	2.75	2.50	(<i>Juniperus chinensis mascula</i>), gray-green pyramids		
3 to 4 ft.	3.75	3.50	3 to 4 ft.	2.75	2.50
			Von Ehrh Juniper, pyramids		
			(<i>Juniperus sabin</i> Vonehrh), staked and trained to pyramids		
			24 to 30 ins.	2.25	2.00
			30 to 36 ins.	3.00	2.75
			3 to 4 ft.	3.75	3.50

MISCELLANEOUS CONIFERS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Garee Cypress			Chamaecyparis Cyano Viridis			Mugho Pine (Pinus mughus)		
3 ft.	\$2.25	\$2.00	24 to 30 ins.	\$1.50	\$1.25	12 to 15 ins.	\$1.65	\$1.50
4 ft.	3.25	3.00	30 to 36 ins.	2.00	1.75	15 to 18 ins.	2.20	2.00
atlantica			3 to 4 ft.	2.50	2.25			
3 ft.	1.75	1.50	Austrian Pine (Pinus nigra)			White Pine (Pinus strobus)		
4 ft.	2.75	2.50	18 to 24 ins.	1.40	1.25	18 to 24 ins.	1.40	1.25
5 ft.	3.75	3.50	24 to 30 ins.	2.00	1.75	24 to 30 ins.	2.00	1.75
deodara			30 to 36 ins.	2.50	2.25	30 to 36 ins.	2.50	2.25
3 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00	3 to 4 ft.	3.25	3.00
4 ft.	2.75	2.50	4 to 5 ft.	4.50	4.00	4 to 5 ft.	4.25	4.00
5 ft.	3.75	3.50						
6 ft.	4.75	4.50						

BROAD-LEAVED EVERGREENS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
grandiflora			Ilex opaca Croonenburg			Nandina domestica		
3 ft.	\$1.25	\$1.00	2 to 3 ft.	\$2.25	\$2.00	15 to 18 ins.	\$0.80	\$0.75
4 ft.	1.50	1.25	3 to 4 ft.	3.25	3.00	18 to 24 ins.	1.00	.90
(Mlicium amissatum)			4 to 5 ft.	4.25	4.00	24 to 30 ins.	1.40	1.25
3 ft.	1.50	1.25	Ilex East Palatka			30 to 36 ins.	1.65	1.50
julianae nana			2 to 3 ft.	2.25	2.00	3 to 4 ft.	2.25	2.00
18 ins.	1.75	1.50	3 to 4 ft.	3.25	3.00	Osmanthus fortunei		
barlandi			4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.40	1.25
8 ins. ....	.50	.50	5 to 6 ft.	5.50	5.00	24 to 30 ins.	1.90	1.75
10 ins. ....	.85	.75	6 to 7 ft.	7.50	7.00	Viburnum burkwoodi		
12 ins.	1.15	1.00	Ilex fosteri (Foster No. 2)			18 to 24 ins.	1.65	1.50
sempervirens			2 to 3 ft.	2.25	2.00	24 to 30 ins.	1.90	1.75
18 ins.	2.25	2.00	3 to 4 ft.	3.25	3.00	30 to 36 ins.	2.25	2.00
24 ins.	2.75	2.50	Ilex opaca hewardi			Viburnum chenaulti		
aster decora lactea			2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.65	1.50
30 ins.	1.50	1.25	3 to 4 ft.	3.25	3.00	Viburnum juddi		
36 ins.	2.00	1.75	4 to 5 ft.	4.25	4.00	15 to 18 ins.	1.40	1.25
pus pungens			5 to 6 ft.	5.50	5.00	18 to 24 ins.	1.65	1.50
3 ft.	1.25	1.00	Ilex opaca Hume No. 2			Viburnum rhytidophyllum		
4 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00	(Leather-leaved Snowball)		
pus coloratus			4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.65	1.50
24 ins.	1.20	1.00	5 to 6 ft.	5.50	5.00	24 to 30 ins.	1.90	1.75
30 ins.	1.40	1.25	Ilex opaca Reynolds			30 to 36 ins.	2.25	2.00
36 ins.	1.75	1.50	2 to 3 ft.	2.25	2.00			
pus patens			3 to 4 ft.	3.25	3.00			
24 ins.	1.20	1.00	Ilex vomitoria, small-leaved, sheared			Magnolia nigra		
30 ins.	1.40	1.25	18 to 24 ins.	1.15	1.00	(Purple Magnolia)		
36 ins.	1.75	1.50	24 to 30 ins.	1.65	1.50	2 to 3 ft.	\$1.75	\$1.50
4 ft.	2.25	2.00	30 to 36 ins.	2.25	2.00	Magnolia soulangeana		
ia stricta nana			3 to 4 ft.	2.75	2.50	(Pink Magnolia)		
18 ins.	1.00	.75	Ilex vomitoria Pride of Houston			2 to 3 ft.	2.25	2.00
24 ins.	1.25	1.00	18 to 24 ins.	1.15	1.00	3 to 4 ft.	3.00	2.75
ia burfordi			24 to 30 ins.	1.65	1.50	4 to 5 ft.	3.75	3.50
18 ins.	1.10	1.00	Ilex vomitoria nana (Dwarf Yaupon)			5 to 6 ft.	5.00	4.50
24 ins.	1.40	1.25	12 to 15 ins.	1.50	1.25	Magnolia stellata (Star Magnolia)		
30 ins.	1.65	1.50	15 to 18 ins.	2.00	1.75	18 to 24 ins.	2.25	2.00
36 ins.	2.25	2.00	18 to 24 ins.	2.50	2.25	2 to 3 ft.	3.25	3.00
4 ft.	3.25	3.00	Jasmine, floridum					
5 ft.	4.50	4.00	15 to 18 ins.	1.15	1.00			
ia femina			18 to 24 ins.	1.40	1.25			
18 ins.	1.10	1.00	24 to 30 ins.	1.70	1.50			
24 ins.	1.40	1.25	30 to 36 ins.	2.00	1.75			
30 ins.	1.65	1.50	Ligustrum lucidum (Black Wax)					
36 ins.	2.25	2.00	18 to 24 ins.	1.00	.90			
4 ft.	3.25	3.00	24 to 30 ins.	1.25	1.10			
ia Hume			30 to 36 ins.	1.50	1.35			
18 ins.	1.40	1.25	Ligustrum lucidum, Griffing type					
24 ins.	1.65	1.50	18 to 24 ins.	1.00	.90			
30 ins.	2.25	2.00	24 to 30 ins.	1.25	1.10			
36 ins.	2.25	2.00	30 to 36 ins.	1.50	1.35			
ia Bux			Ligustrum lucidum Suwannee River					
Strong grower, very hardy,			15 to 18 ins.	1.50	1.25			
18 ins.	1.10	1.00	18 to 24 ins.	2.25	2.00			
24 ins.	1.65	1.50	24 to 30 ins.	2.75	2.50			
30 ins.	2.25	2.00	Carolina Cherry Laurel					
ia convexa			2 to 3 ft.	1.50	1.25			
15 ins. ....	.90	.80	3 to 4 ft.	1.75	1.50			
18 ins.	1.10	1.00	4 to 5 ft.	2.75	2.50			
24 ins.	1.65	1.50	5 to 6 ft.	3.75	3.50			
30 ins.	2.25	2.00	Laurel, English					
ia repandens			18 to 24 ins.	1.15	1.00			
Low-spreading form			2 to 3 ft.	1.75	1.50			
18 ins.	1.10	1.00	Laurel, sabali					
24 ins.	1.65	1.50	(Strap-leaved Laurel)					
ia rotundifolia			15 to 18 ins.	1.40	1.25			
15 ins. ....	.90	.80	18 to 24 ins.	2.00	1.75			
18 ins.	1.10	1.00	Loropetalum chinense					
24 ins.	1.65	1.50	18 to 24 ins.	1.15	1.00			
30 ins.	2.25	2.00	24 to 30 ins.	1.75	1.50			
36 ins.	2.75	2.50	Magnolia grandiflora					
glabra (Inkberry), very hardy			2 to 3 ft.	1.75	1.50			
18 ins.	1.40	1.25	3 to 4 ft.	2.75	2.50			
24 ins.	1.65	1.50	4 to 5 ft.	3.75	3.50			
pus seedlings			5 to 6 ft.	5.50	5.00			
2 to 4 ft.	1.70	1.50	6 to 8 ft.	8.00	7.50			
4 to 5 ft.	2.75	2.50	Magnolia glauca (Sweet Bay)					
5 to 6 ft.	3.75	3.50	2 to 3 ft.	1.50	1.25			
6 to 8 ft.	5.50	5.00	3 to 4 ft.	2.25	2.00			
			4 to 5 ft.	3.25	3.00			
			5 to 6 ft.	4.50	4.00			
			6 to 8 ft.	7.00	6.00			

DECIDUOUS TREES, B&B

	Per 10	Per 100
Magnolia nigra		
(Purple Magnolia)		
2 to 3 ft.	\$1.75	\$1.50
Magnolia soulangeana		
(Pink Magnolia)		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
5 to 6 ft.	5.00	4.50
Magnolia stellata (Star Magnolia)		
18 to 24 ins.	2.25	2.00
2 to 3 ft.	3.25	3.00

LINERS

	Per 10	Per 100
Pot Liners		
R-Rose Pots P-Peat Pots		Each
Elaeagnus fruitlandi, 2 1/2-in. R		\$0.12
Ilex burfordi, 3-in. P		.17 1/2
Ilex crenata convexa, 3-in. P		.17 1/2
Ilex crenata hetsi, 2 1/2-in. R		.15
Ilex crenata repandens, 2 1/2-in. R		.15
Ilex opaca East Palatka, 2 1/2-in. R		.17 1/2
Laurocerasus caroliniana, 2 1/2-in. R		.12
Magnolia glauca, 2 1/2-in. R		.15
Osmanthus aquifolium, 2 1/2-in. R		.20
Osmanthus fortunei, 6 to 8 ins., 2 1/2-in. R		.17 1/2
Thuja occidentalis compacta erecta, 2 1/2-in. R		.17 1/2
Thuja occidentalis globosa, 2 1/2-in. R		.17 1/2
Thuja occidentalis nigra, 2 1/2-in. R		.17 1/2
Thuja occidentalis pyramidalis, 2 1/2-in. R		.17 1/2
Thuja occidentalis wareana, 2 1/2-in. R		.17 1/2
Thuja orientalis Berckmans Golden, 2 1/2-in. R		.17 1/2
Thuja orientalis excelsa, 2 1/2-in. R		.17 1/2
Thuja orientalis fruitlandi, 2 1/2-in. R		.17 1/2
Thuja orientalis bonita, 2 1/2-in. R		.17 1/2
Thuja orientalis newark, 2 1/2-in. R		.17 1/2
Viburnum burkwoodi, 6 to 8 ins., 2 1/2-in. R		.17 1/2
Bed-Grown Liners		
Buxus harlandi, T., 1-yr., 4 to 6 ins.		.00
Buxus harlandi, T., 2-yr., 6 to 8 ins.		.12
Chamaecyparis lawsoniana allumi, T., 1-yr., 6 to 8 ins.		.15
Chamaecyparis Cyano Viridis, T., 1-yr., 4 to 6 ins.		.15
Ilex burfordi, T., 2-yr., 6 to 10 ins.		.15
Ilex crenata rotundifolia, T., 2-yr., 6 to 8 ins.		.15
Jasminum floridum, T., 8 to 12 ins.		.12
Field-Grown Liners		
Ilex crenata rotundifolia, TT		
Ilex crenata convexa, TT, 4-year, field-grown plants, many times trimmed—specimen quality—fine for cans.		
10 to 12 ins.		\$0.40
12 to 15 ins. ....		.60

SHADE AND ORNAMENTAL TREES

For Fall and Spring Delivery

Here are a few of the many good varieties we grow.

	Per 10	Per 100
Ash, Green (<i>Fraxinus lanceolata</i>)		
1 1/2 to 2-in. cal.....	\$45.00	\$400.00
1 1/4 to 1 1/2-in. cal.....	32.50	300.00
8 to 10 ft.....	25.00	225.00
6 to 8 ft.....	18.00	165.00
5 to 6 ft.....	12.50	110.00

Elm, Hybrid (<i>American-Chinese</i>)		
Willis		
Rosehill		
1 1/2 to 2-in. cal.....	45.00	425.00
1 1/4 to 1 1/2-in. cal.....	40.00	350.00
8 to 10 ft.....	30.00	257.00
6 to 8 ft.....	22.50	200.00
5 to 6 ft.....	14.00	125.00
4 to 5 ft.....	10.00	90.00

CHRISTINE BUISMAN ELM

The Coming Shade Tree
Resistant to Elm Diseases

	Per 10	Per 100
2 to 2 1/2-in. cal.....	\$85.00	\$750.00
1 1/2 to 2-in. cal.....	65.00	600.00
1 1/4 to 1 1/2-in. cal.....	55.00	500.00
8 to 10 ft.....	45.00	400.00
6 to 8 ft.....	32.00	300.00
5 to 6 ft.....	23.50	225.00

	Per 10	Per 100
Hackberry (<i>Celtis occidentalis</i>)		
8 to 10 ft.....	\$28.50	\$275.00
6 to 8 ft.....	22.50	200.00
5 to 6 ft.....	13.50	125.00

Koelreuteria paniculata (Golden-Rain Tree)		
5 to 6 ft.....	32.50	
4 to 5 ft.....	25.00	225.00
3 to 4 ft.....	20.00	175.00

Soft or Silver Maple (<i>Acer saccharinum</i>)		
2 to 2 1/2-in. cal.....	55.00	500.00
1 1/2 to 2-in. cal.....	45.00	400.00
1 1/4 to 1 1/2-in. cal.....	30.00	265.00
8 to 10 ft.....	25.00	225.00
6 to 8 ft.....	17.50	165.00
5 to 6 ft.....	12.50	110.00

Oak, Pin (<i>Quercus palustris</i>)		
3 to 3 1/2-in. cal., B&B.....	250.00	
2 1/2 to 3-in. cal., B&B.....	200.00	
2 to 2 1/2-in. cal., B&B.....	150.00	
1 1/2 to 2-in. cal., B&B.....	110.00	
1 1/4 to 1 1/2-in. cal., B&B.....	90.00	
8 to 10 ft., B&B.....	80.00	
6 to 8 ft., B&B.....	60.00	
5 to 6 ft., B&B.....	40.00	
4 to 5 ft., B&B.....	30.00	

Poplar, Lombardy (<i>Populus nigra italica</i>)		
Branched low		
2 to 2 1/2-in. cal.....	\$17.50	\$150.00
1 1/2 to 2-in. cal.....	10.00	90.00
1 1/4 to 1 1/2-in. cal.....	8.00	75.00
8 to 10 ft.....	7.50	65.00
6 to 8 ft.....	6.00	50.00
5 to 6 ft.....	4.00	35.00
Whips and Lightly Branched		
6 to 8 ft.....	2.50	22.00
5 to 6 ft.....	2.00	18.00
4 to 5 ft.....	1.50	14.00
3 to 4 ft.....	1.25	10.00

Redbud (<i>Cercis canadensis</i>)		
1 1/2 to 2-in. cal.....	60.00	
1 1/4 to 1 1/2-in. cal.....	40.00	
8 to 10 ft.....	35.00	
6 to 8 ft.....	27.50	250.00
5 to 6 ft.....	19.00	175.00
4 to 5 ft.....	12.50	110.00
3 to 4 ft.....	8.50	80.00
2 to 3 ft.....	6.00	55.00

Sycamore, American (<i>Platanus occidentalis</i>)		
2 1/2 to 3-in. cal.....	70.00	650.00
2 to 2 1/2-in. cal.....	55.00	500.00
1 1/4 to 1 1/2-in. cal.....	33.00	300.00
8 to 10 ft.....	27.50	250.00
6 to 8 ft.....	18.50	175.00
5 to 6 ft.....	12.50	110.00
4 to 5 ft.....	9.00	85.00

Willow (<i>Salix</i>)		
Wisconsin Weeping (<i>Salix blanda</i>)		
5 to 6 ft.....	8.00	75.00
4 to 5 ft.....	5.50	50.00
5 to 6 ft., whips.....	2.25	20.00
4 to 5 ft., whips.....	1.60	15.00
Niobe Weeping (<i>Salix</i> <i>babylonica</i> var. <i>aurea</i>)		
5 to 6 ft.....	8.00	75.00
4 to 5 ft.....	5.50	50.00
3 to 4 ft.....	4.00	35.00

PATENTED HONEY LOCUST

We are licensed
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Moraine
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Write for list of
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THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
Ottawa, Kan.

January 25 to 27—Virginia Nurserymen's Association, 28th annual convention, Hotel John Marshall, Richmond, Va.

February 3 to 5—New England Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

February 22 to 25—Canadian Association of Nurserymen, annual meeting, Garden Center hotel, Vineland Station, Ont., Canada.

NEBRASKANS' DATES

Dates for the annual convention of the Nebraska Association of Nurserymen have been announced as December 8 and 9 by James B. Elliott, Plumfield Nurseries, Inc., secretary of the association. The Cornhusker hotel, Lincoln, Neb., will be the headquarters for the event.

CONNECTICUT SITE

Waverly Inn, Cheshire, Conn., will be the site of the annual meeting of the Connecticut Nurserymen's Association. The date, December 30, has been announced by Erwin W. Whitham, association secretary.

RALEIGH, N. C., CHOSEN

Dates selected for the winter meeting of the North Carolina Association of Nurserymen are January 4 to 6. The program is scheduled to be held in the College Union at North Carolina State College, Raleigh, N. C., according to Knox D. Porter, president of the state association.

IOWA LANDSCAPE MEET

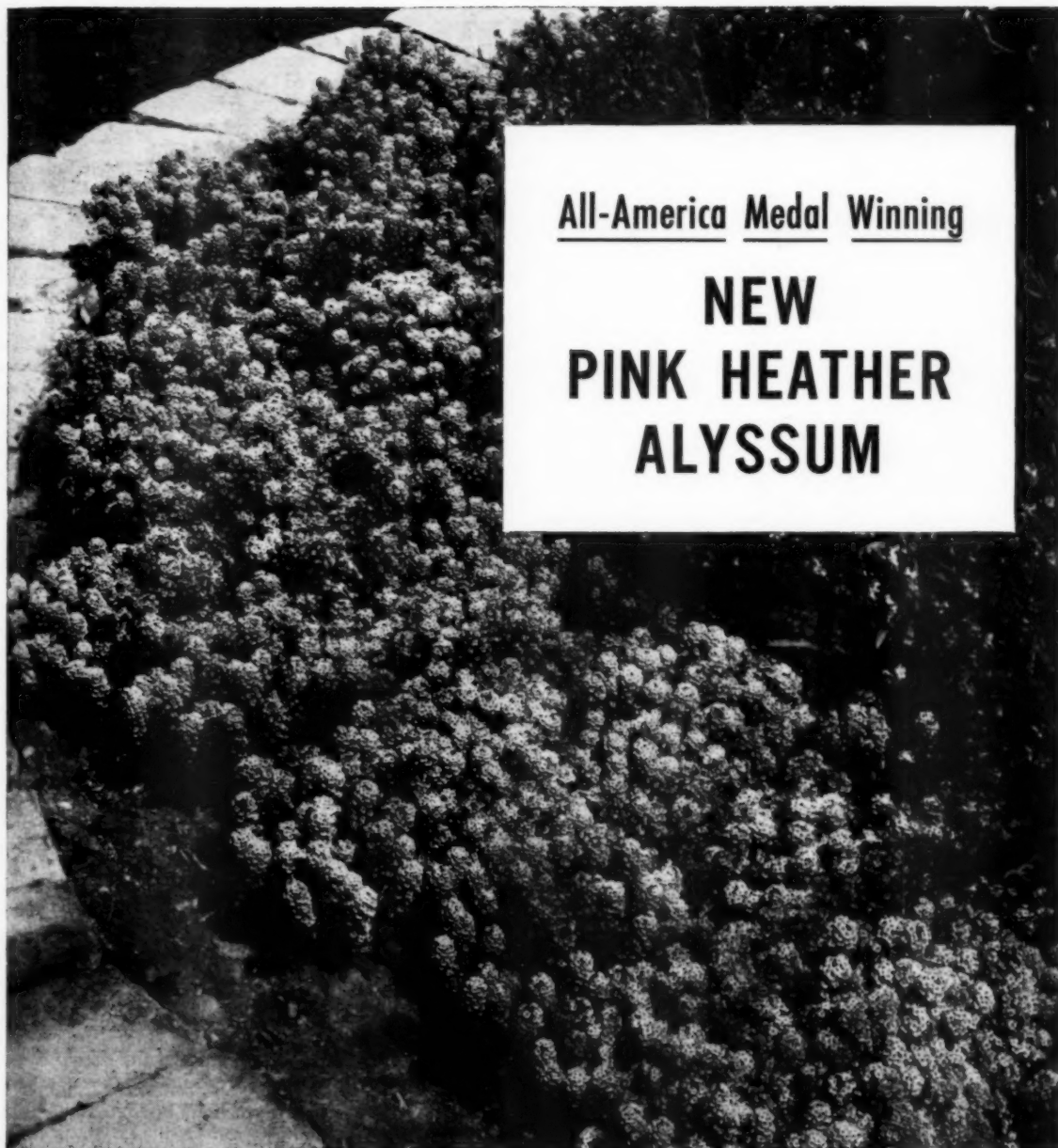
Plans for the sixth annual conference in landscape architecture for Iowa nurserymen have been announced by Prof. R. R. Rothacker, department of landscape architecture, Iowa State College, Ames. The meetings will be held January 7 at the Memorial Union on the Iowa State College campus.

VIRGINIA CONVENTION

January 25 to 27 are the dates set for the 28th annual convention of the Virginia Nurserymen's Association, according to Charles L. Otey, Richmond, secretary-treasurer. The sessions will be held at the Hotel John Marshall, Richmond, Va.

INDIANA MEETING

The Indiana Arborists' Association will hold meetings January 7 to 9, immediately after the program of the Indiana Association of Nursery-



All-America Medal Winning

NEW PINK HEATHER ALYSSUM

ORIGINATED BY FERRY-MORSE

Seed from Ferry-Morse's new Pink Heather Alyssum, the only medal winner in the All-America Selections for 1959, will be available after the 1958 harvest.

Pink Heather blooms into a soft lavender-pink—striking a deeper shade in cool climates and ranging to delicate tints during the hot dry midsummer.

It has the vigor and blooming habits of Little Gem. Compact plants average 6 inches in height and produce profuse blooms which continue into the fall.

Seed stocks will be limited. Order now for assured delivery when the harvest is in.

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DEDUCT 10% FOR DELIVERY THIS FALL

Every one is a sturdy healthy plant with an excellent root system—guaranteed to satisfy.

250 or more of 1 variety and grade at 1000 rate (minimum 25).

	Each Per100	Each Per1000		Each Per100	Each Per1000
Cuspidata, spreading			Media hicksi		
2-yr., C. T.,			2-yr., C. T.,		
6 to 12 ins.	\$0.45	\$0.40	9 to 15 ins.	\$0.50	\$0.45
4-yr., C. TT.,			Media kelseyi		
10 to 15 ins. ....	.85	.75	1-yr., C. T.,		
Cuspidata capitata, upright			6 to 9 ins. ....	.20	.17½
3-yr., S. TT.,			2-yr., C. T.,		
6 to 12 ins. ....	.45	.35	6 to 12 ins. ....	.45	.40
4-yr., S. TT.,			4-yr., C. TT.,		
6 to 12 ins. ....	.00	.50	9 to 12 ins. ....	.85	.75
4-yr., S. TTT.,			Media Flushing		
12 to 18 ins. ....	.75	.65	2-yr., C. T.,		
6-yr., S. TTT.,			8 to 10 ins. ....	.60	.55
12 to 15 ins.	1.10	1.00	4-yr., C. TT.,		
15 to 18 ins.	1.25	1.15	10 to 15 ins.	1.00	.90
6-yr., S. TTT.,			Media grandifolia		
18 to 21 ins.	1.50	1.40	2-yr., C. T.,		
Cuspidata densiformis			8 to 10 ins. ....	.60	.55
2-yr., C. T.,			4-yr., C. TT.,		
6 to 12 ins. ....	.50	.40	10 to 15 ins.	1.00	.90
Cuspidata intermedia			Media pilaris		
2-yr., C. T.,			2-yr., C. T.,		
8 to 12 ins. ....	.45	.40	6 to 8 ins. ....	.50	..
Cuspidata microphylla			4-yr., C. TT.,		
4-yr., C. TT.,			10 to 15 ins.	1.00	..
10 to 15 ins. ....	.85	.75	Media pyramidalis		
Cuspidata vermeulen			2-yr., C. T.,		
1-yr., C. T.,			8 to 10 ins. ....	.60	.55
6 to 8 ins. ....	.20	.17½	4-yr., C. TT.,		
2-yr., C. T.,			10 to 15 ins.	1.00	.90
6 to 12 ins. ....	.45	.40	Media robusta		
4-yr., C. TT.,			2-yr., C. T.,		
9 to 15 ins. ....	.85	.75	8 to 10 ins. ....	.60	.55
Media compacta			4-yr., C. TT.,		
4-yr., C. TT.,			12 to 15 ins.	1.00	..
12 to 15 ins. ....	.85	.75	Media sentinialis		
Media browni			4-yr., C. TT.,		
2-yr., C. T.,			10 to 15 ins.	1.00	..
8 to 12 ins. ....	.50	.45	Media stricta		
Media hatfieldi			2-yr., C. T.,		
1-yr., C. T.,			8 to 10 ins. ....	.60	.55
6 to 8 ins. ....	.20	.17½	3-yr., C. TT.,		
2-yr., C. T.,			9 to 12 ins. ....	.75	..
6 to 12 ins. ....	.45	.40	4-yr., C. TT.,		
4-yr., C. TT.,			10 to 15 ins.	1.00	.90
9 to 12 ins. ....	.75	.65	Media viridis		
4-yr., C. TT.,			2-yr., C. T.,		
12 to 15 ins. ....	.85	.75	6 to 8 ins. ....	.50	..
4-yr., C. TT.,			3-yr., C. TT.,		
15 to 18 ins. ....	.95	..	9 to 12 ins. ....	.75	.65
Media hatfieldi, spreading			4-yr., C. TT.,		
1-yr., C. T.,			10 to 15 ins.	1.00	.90
6 to 10 ins. ....	.20	.17½			
2-yr., C. T.,					
8 to 12 ins. ....	.50	.45			

HEAVILY ROOTED TAXUS CUTTINGS

Over 15,000 heavily rooted, strong, sturdy cuttings from sand in greenhouse benches. Stuck last winter.

	Each Per100	Each Per1000		Each Per100	Each Per1000
Cuspidata			Vermeulen		
8 to 10 ins.	\$0.11	\$0.10	4 ins.	\$0.09	\$0.08
Capitata			6 ins. ....	.11	.10
6 to 12 ins. ....	.15	..	Andersoni		
Baccata repandens			6 to 8 ins. ....	.11	.10
6 ins. ....	.16	.14	Hatfieldi		
Densiformis			4 to 6 ins. ....	.09	.08
4 to 6 ins. ....	.12	.11	6 ins. ....	.11	.10
Intermedia			8 ins. ....	.14	.13
6 ins. ....	.10	.09	10 ins. ....	.15	.14
8 ins. ....	.12	.11	Kelseyi		
			4 to 6 ins. ....	.10	.09
			6 to 8 ins. ....	.11	.10

SPECIAL NOTE: We will pot any or all of these into 2¼-in. Jiffy (peat moss) pots and supply them well-established for spring, 1959, planting for only \$95.00 per 1000 above listed prices. Contact us for details. We also have many other choice liners and will be glad to send our new fall-spring catalog. Come see us if you can.

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Growing Finer Liners since 1921



SUB-ZERO ROSES

Look for this tag to be sure of getting original Brownell Roses . . . personally grown by Mr. Brownell. The famous varieties, plus exciting new ones, too.

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WALTER D. BROWNELL, JR.

Brownell Rose Co., East Providence 14, R. I.



SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman. Planting guide for florists and nurserymen. \$8.00.

American Nurseryman, Chicago 4, Ill.

men in the new Memorial Center at Purdue University, Lafayette, Ind.

For the first time this year, according to Donald L. Schuder, Lafayette, executive secretary, the meetings will be held as a part of Horticulture week, January 5 to 9, when several horticulture groups will convene at the university.

MAIL-ORDER NURSERYMEN

Plans for the winter meeting of the National Mail Order Nurserymen's Association have been announced by Roger Krider, Middlebury, Ind., secretary. The meeting will be held January 12 from 9 to 11 a. m. at the Hotel La Salle, Chicago, Ill.

ARBORISTS' COURSE

A short course for the New York State Arborists will be held at Cornell University, Ithaca, N. Y., January 11 to 13, according to Prof. Alfred M. S. Pridham, department of floriculture and ornamental horticulture, New York State College of Agriculture. Meetings will be held in Statler Hall.

OHIO SHORT COURSE

The annual short course for Ohio nurserymen, landscape gardeners and arborists sponsored by Ohio State University, Columbus, will be held January 19 to 21 at Columbus, according to L. C. Chadwick, department of horticulture and forestry, O. S. U. The annual winter meeting of the Ohio Nurserymen's Association will again follow the short course program.

NEW JERSEY'S TWO DATES

The New Jersey Association of Nurserymen again plans to divide its winter meeting into two parts, according to William E. Snyder, Rutgers University, New Brunswick, N. J., secretary. The first part of the meeting will be held January 22 and 23, at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J. The second part, to be held in conjunction with farmers' week, is scheduled for January 29 at the Hotel Hildebrecht, Trenton, N. J.

CANADIAN PLANS

The Canadian Association of Nurserymen will hold its 36th annual meeting February 22 to 25, according to J. R. Burns, Ottawa, Ont., secretary-treasurer. The group will convene at the Garden Center hotel, Vineland Station, Ont., Canada.

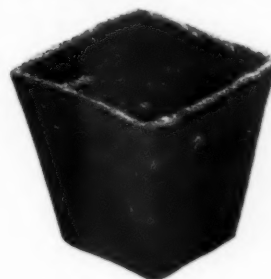
ROUND!



SHORTY!



SQUARE!



The New Look in JIFFY-POTS

Two new shapes have been added to our line of Jiffy-Pots—the original peat pot, now used around the world. A careful study of the market demand plus repeated testing has resulted in these new shapes—the "SHORTY" and the "SQUARE," both especially designed to meet all grower needs. These new pots are composed of the same long-fibered peat and wood fiber used in our standard round pots and are uniformly impregnated with just the proper amount of nutrients to give young plants a good start. A careful blending and processing produces a pot that is strong walled—light weight—permits excellent root aeration—and encourages rapid root penetration.

The SHORTY has a broader base which gives it greater stability—ideal for bedding plants or plants that do best when benched shallow, such as Carnations.

The SQUARE pot is a space saver, fitting snugly into bench, flat or shipping carton—very convenient for shippers of small plants like Geraniums.

THESE THREE SHAPES AVAILABLE IN THE FOLLOWING SIZES:

ROUND STANDARD

No. 115. **NEW!** 1½-in. Round. 1¾ ins. deep. Used for very small plants that need to be grown for a short period in limited space, such as Snap seedlings or perennials for field planting.

	Per 1000
3000 to 18,000 (3000, \$17.70)	\$5.90
21,000 to 72,000	5.40
75,000 up	4.90
Sold in cases of 3000, 18 lbs. per case.	
Minimum order 3000.	

No. 122. 2¼-in. Round. 2¼ ins. deep. Most widely used size for florists' and nursery crops. Ideal for Poinsettias, Geraniums, foliage plants.

	Per 1000
3000 to 18,000 (3000, \$21.75)	\$7.25
21,000 to 72,000	6.75
75,000 up	6.25
Sold in cases of 3000, 35 lbs. per case.	
Minimum order 3000.	

No. 130. 3-in. Round. 3 ins. deep. Best for plants that rapidly make large root systems, require longer growing time or more space.

	Per 1000
1500 to 9000 (1500, \$19.88)	\$13.25
10,500 to 49,500	12.25
51,000 up	11.00
Sold in cases of 1500, 35 lbs. per case.	
Minimum order 1500.	

ROUND SHORTIES

No. 330. **NEW!** 3-in. Shorty. 2½ ins. deep. Its broad base gives greater stability. Ideal for bedding plants. Well suited for plants that are best when benched shallow.

	Per 1000
1500 to 9000 (1500, \$19.50)	\$13.00
10,500 to 49,500	12.00
51,000 up	10.75
Sold in cases of 1500, 33 lbs. per case.	
Minimum order 1500.	

No. 335. **NEW!** 3½-in. Shorty. 3 ins. deep. Well adapted for greenhouse tomatoes or bulbs such as Caladiums, Tuberous Begonias, etc.

	Per 1000
1000 to 6000	\$18.25
7000 to 29,000	17.00
30,000 up	15.25
Sold in cases of 1000, 35 lbs. per case.	
Minimum order 1000.	

SQUARE

No. 222. **NEW!** 2¼-in. Square. 2¼ ins. deep. Especially convenient for shippers of small plants like Geraniums. Fits into trays or cartons snugly and securely.

	Per 1000
2500 to 17,500 (2500, \$18.75)	\$7.50
20,000 to 72,500	7.00
75,000 up	6.50
Sold in cases of 2500, 35 lbs. per case.	
Minimum order 2500.	

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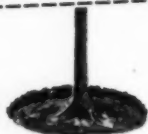
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4 Distinct Colors



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Here it is . . . one of the most amazing rose discoveries in centuries! A glorious marvel of modern horticultural science! True garden lovers are flocking for the Kolorama 4-in-1 Tree Rose. It is the envy of every neighborhood where grown . . . framing a gateway, as a focal point by living room or patio windows and conversation piece in formal or informal gardens, large or small.

Developed for cold and disease resistance, our 4-in-1 Kolorama Tree Rose blooms within 2 to 3 months after planting, producing big beautiful flowers with mingling fragrances all at one time and increasing in luxuriant foliage and blooms year after year. To own this newest and rarest of tree roses is indeed a delight!

	BARE ROOT	PACKAGED
No. 1 Grade	3.50	3.65
No. 1½ Grade	3.00	3.15

No orders please, for less than 5 trees

Newspaper mat of this ad with copy as above (which you may change easily) **FREE** with your order.

Nurserymen's Exchange

475 SIXTH STREET, SAN FRANCISCO 3, CALIFORNIA

COVER ILLUSTRATION

Tilia Americana Fastigiata

Several species of tilia have proved satisfactory when used as city street trees because of their good growth habit and rapid development. Although attaining considerable height, often to 100 feet, under ideal conditions, those species and hybrids most used mature at much less size in cultivation. The lindens, basswoods and lime trees, as tilia species are variously called, are not greatly prone to extensive damage from insect pests or disease infection, and this relative freedom from blight makes them some of our most desirable shade and ornamental trees.

Whereas some of the larger-growing, good-size species were formerly



Foliage of Tilia Americana Fastigiata

suitable for city street embellishment and use as shade trees on home grounds, present-day conditions have greatly limited the practicability of large trees. The vast increase in utility service lines in urban areas and the ever-growing need for wider streets, with the resulting decrease in the width of street tree lawns and planting belts, have made maintenance costs of the larger-maturing species prohibitive, while the small areas provided in modern home plots make much smaller forms far more practical.

In his extensive work on the selection and proving, by test plantings under normal conditions on city streets, of smaller-growing species and forms that would be more consistent with modern conditions, Barney Slavin, former park superintendent at Rochester, N. Y., found and propagated an upright form of the

WE ARE READY TO DIG YOUR ORDER NOW!

FLOWERING TREES

	Per 10	Per 100
Cercis canadensis (Redbud)		
3 to 4 ft., br.	\$ 4.00	\$ 35.00
4 to 5 ft., br.	6.00	50.00
5 to 6 ft., br.	8.50	75.00
6 to 8 ft., br.	12.50	100.00
Cornus florida (White-Flowering Dogwood)		
18 to 24 ins., br.	3.00	20.00
2 to 3 ft., br.	4.50	35.00
3 to 4 ft., br.	7.50	60.00
Cornus florida alba plena		
12 to 18 ins.	10.00	75.00
18 to 24 ins.	12.50	100.00
2 to 3 ft.	15.00	125.00
Prunus Newport (Purple-Leaved Plum)		
2 to 3 ft.	3.50	30.00
3 to 4 ft., br.	4.50	40.00
4 to 5 ft., br.	6.00	50.00
5 to 6 ft., br.	8.00	75.00

	Per 10	Per 100
Cornus florida rubra (Pink-Flowering Dogwood)		
6 to 12 ins., 1-yr.	\$ 6.00	\$ 50.00
12 to 18 ins., 1-yr.	7.00	60.00
18 to 24 ins., 1-yr.	9.00	75.00
2 to 3 ft., 1-yr.	12.50	100.00
3 to 4 ft., 2-yr.	17.50	150.00
4 to 5 ft., 2-yr., br.	27.50	250.00
5 to 6 ft., 3-yr., br.	45.00	400.00
6 to 8 ft., 3-yr., hvy. br.	60.00	500.00
Prunus persica (Flowering Peach)		
Double white, double red, double pink, peppermint stick.		
2 to 3 ft.	3.00	25.00
3 to 4 ft.	4.00	30.00
4 to 5 ft.	5.00	40.00
5 to 6 ft.	6.00	50.00

	Per 10	Per 100
Almey Flowering Crab Apple New! Fiery-crimson! Sensational!		
1-yr., buds		
2 to 3 ft.	\$10.00	\$ 75.00
3 to 4 ft.	12.50	100.00
4 to 5 ft.	15.00	125.00
Eleyi Flowering Crab Apple Hopa Crab Apple		
2 to 3 ft., whips	5.00	40.00
3 to 4 ft., whips	6.00	50.00
4 to 5 ft., whips	7.50	65.00
4 to 5 ft., br.	10.00	75.00
5 to 6 ft., br.	12.50	100.00
6 to 8 ft., br.	17.50	150.00
Malus coronarius (Wild Sweet Crab Apple)		
18 to 24 ins.	2.50	20.00
2 to 3 ft.	3.50	25.00
3 to 4 ft.	4.50	35.00

SHADE TREES

	Per 10	Per 100
Acer dasycarpum (Silver Maple)		
5 to 6 ft., well-br.	\$ 6.00	\$ 50.00
6 to 8 ft., well-br.	8.00	75.00
8 to 10 ft., well-br.	12.00	100.00
10 to 12 ft., well-br.	15.00	140.00
Acer platanoides (Norway Maple)		
4 to 5 ft., T.	11.00	100.00
5 to 6 ft., T.	15.00	125.00
6 to 8 ft., T., br.	25.00	200.00
8 to 10 ft., T., br.	30.00	250.00
Acer rubrum (Native Red or Scarlet Maple)		
4 to 5 ft., br., T.	10.00	90.00
5 to 6 ft., br., T.	12.50	110.00
6 to 8 ft., br., T.	15.00	125.00
Liriodendron tulipifera (Tulip Tree)		
4 to 5 ft., br.	6.00	50.00
5 to 6 ft., br.	7.50	65.00
6 to 8 ft., br.	10.00	85.00
8 to 10 ft., br.	15.00	125.00
(B&B, \$1.00 extra per tree)		

	Each	Per 10
Sunburst Locust (Plant Patent No. 1313)		
The first new color in a hardy ornamental shade tree in decades. Bright golden foliage on 8 to 10 ins. of branch tips, contrasts with the rich green of the balance of the tree; appears to be in bloom all summer.		
5 to 6 ft.	\$3.50	\$32.50
6 to 8 ft.	4.25	40.00

	Each	Per 10
Moraine Locust (Plant Patent No. 836) (Gleditsia triacanthos inermis Moraine)		
A new vase form, thornless, seedless and hardy tree. Resistant to disease and insect damage.		
5 to 6 ft.	3.25	30.00
6 to 8 ft.	4.00	37.50

	Per 10	Per 100
Platanus occidentalis (Plane Tree) (Sycamore)		
4 to 5 ft., br.	\$ 6.00	\$ 50.00
5 to 6 ft., br.	7.50	60.00
6 to 8 ft., br.	10.00	75.00
8 to 10 ft., br.	12.50	100.00

	Per 10	Per 100
Tilia americana (American Linden)		
3 to 4 ft., br., T.	6.00	50.00
4 to 5 ft., br., T.	8.50	75.00
5 to 6 ft., br., T.	10.00	90.00
6 to 8 ft., br., T.	15.00	125.00

	Per 10	Per 100
Ulmus pumila (Chinese Elm)		
5 to 6 ft., br.	7.00	65.00
6 to 8 ft., br.	10.00	75.00
8 to 10 ft., br.	15.00	100.00

EVERGREENS

	Per 10	Per 100
Arborvitae, globosa (American Globe Arborvitae)		
15 to 18 ins., B&B	\$17.50	\$150.00
18 to 24 ins., B&B	20.00	175.00
24 to 30 ins., B&B	22.50	200.00
Arborvitae, pyramidalis (Pyramidal Arborvitae)		
18 to 24 ins., B&B	17.50	150.00
24 to 30 ins., B&B	20.00	175.00
30 to 36 ins., B&B	22.50	200.00
3 to 4 ft., B&B	25.00	225.00
Juniperus hibernica (Irish Juniper)		
18 to 24 ins., B&B	12.50	100.00
2 to 3 ft., B&B	15.00	125.00
3 to 4 ft., B&B	17.50	150.00

	Per 10	Per 100
Juniperus sabina (Savin Juniper)		
15 to 18 ins., B&B	\$15.00	\$125.00
18 to 24 ins., B&B	17.50	150.00
24 to 30 ins., B&B	20.00	175.00
Juniperus pfitzeriana (Pfitzer Juniper)		
12 to 15 ins., B&B	15.00	135.00
15 to 18 ins., B&B	18.50	165.00
18 to 24 ins., B&B	22.50	200.00
24 to 30 ins., B&B	25.00	225.00
Juniperus Blue Haven (Blue Cedar Juniper)		
2 to 3 ft., B&B	25.00	200.00
3 to 4 ft., B&B	30.00	250.00
4 to 5 ft., B&B	40.00	350.00

	Per 10	Per 100
Juniperus glauca hetzi A blue spreader resembling Juniperus pfitzeriana.		
15 to 18 ins., B&B	\$15.00	\$135.00
18 to 24 ins., B&B	17.50	165.00
24 to 30 ins., B&B	22.50	200.00
30 to 36 ins., B&B	25.00	225.00
Tsuga canadensis (Canadian Hemlock)		
18 to 24 ins., B&B	25.00	225.00
24 to 30 ins., B&B	30.00	275.00
30 to 36 ins., B&B	37.50	350.00
3 to 4 ft., B&B	45.00	400.00
4 to 5 ft., B&B	60.00	550.00

All the above are first-class nursery stock, sold F.O.B. McMinnville, Tenn. Our fall wholesale descriptive color catalog is just off the press; write for your copy. We can take care of your order in truck or car load lots — many items too numerous to mention.

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McMinnville, Tenn.

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Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (<i>Picea excelsa</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	\$ 7.00	\$18.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
(2-2), 4-yr., T., 8 to 14 ins.	16.00	90.00
Scotch Pine (<i>Pinus sylvestris</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	12.50
(2-0), 2-yr., S., 2 to 6 ins.	5.00	14.00
(2-0), 2-yr., S., 4 to 8 ins.	6.00	20.00
(3-0), 3-yr., S., 8 to 15 ins.	8.00	25.00
(2-0), 4-yr., T., 6 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 8 to 14 ins.	15.00	60.00
Blue Spruce (<i>Picea pungens</i>) (Colorado Blue Spruce)		
(2-0), 2-yr., S., 2 to 3 ins.	4.00	20.00
(2-0), 2-yr., S., 2 to 4 ins.	6.00	25.00
(3-0), 3-yr., S., 3 to 4 ins.	8.00	30.00
(3-0), 3-yr., S., 4 to 6 ins.	10.00	40.00
Austrian Pine (<i>Pinus nigra</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 5 to 10 ins.	15.00	70.00
White Spruce (<i>Picea alba</i>), excellent blue-gray color		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
(3-0), 3-yr., S., 5 to 10 ins.	10.00	45.00
Concolor Fir (<i>Abies concolor</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	...
(2-0), 2-yr., S., 2 to 6 ins.	10.00	...
(3-0), 3-yr., S., 4 to 8 ins.	15.00	...
Douglas Fir		
(2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
(2-0), 3-yr., S., 3 to 6 ins.	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind.

Order 100 at 100 rate; 1000 at the 1000 rate.
Special prices on large quantities. Write us.

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MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Hardy, northern-grown plants. Our highest quality is well known.

2 to 3 mm. in caliper, 8 to 12 ins. in height, \$12.50 per 1000.

3 to 8 mm. in caliper, 12 to 24 ins. in height, \$22.50 per 1000.

Less than 1000 add 30%. Packing at cost.

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PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade. ... \$6.00 \$50.00 \$47.50

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

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East Rochester, N. Y.

Rosa multiflora japonica, 1-yr., not transplanted

Berberis, Green, 2-yr., not transplanted

Berberis, Red, 2-yr., not transplanted

Fruit trees, in variety

Evergreen Bittersweet, 15 ins. to 2 ft.

New Trade List now available including Specimen List, unusual items.

American linden, which Alfred Rehder lists in his "Manual" as a narrow pyramidal form with ascending branches. Cultivars of this shapely, fastigate clone retain all the satisfactory characteristics of the parent species, but are far better adapted for limited space plantings than the broad-headed species type.

When city foresters eventually accomplish the prodigious task of eradicating the widespread havoc now plaguing them by the far-flung infestation of Dutch elm disease, it is to be hoped that the forest giants so commonly used on city streets will be replaced with those species and forms which, in the path of fatal blights, can be much more easily and economically dealt with. J. G.

NAME NEW BLACKBERRY

Darrow, a new variety of blackberry, was introduced and named at the 40th annual meeting of the New York State Fruit Testing Association held at Geneva recently.

The new berry was named in honor of Dr. George M. Darrow, who, prior to his retirement in 1956, was in charge of the small fruit breeding program of the United States Department of Agriculture. Dr. Darrow was present when the new blackberry was named.

Describing the new introduction, Prof. George L. Slate, small fruit breeder at the Cornell University experiment station at Geneva, stated that Darrow originated from a cross made in 1940 between a seedling known as N. Y. No. 15826 and a station introduction of 1950 named Hedrick. Both parents came from a cross between Eldorado and Brewer, old-time commercial varieties.

Darrow is said to be notable for its vigor, regular and heavy production, firmness and general good quality. The berries, one inch long and three-fourths inch wide, begin ripening in late July, with Eldorado, and continue over a long period, according to a report from the Geneva experiment station. The Cornell research workers also state that plants of Darrow appear harder than those of most blackberry varieties growing at the experiment station and bore much heavier crops in 1957 and 1958 than other sorts that suffered winter injury.

Plants of Darrow are now available from the New York State Fruit Testing Association, which propagates and distributes new introductions developed in the experiment station's extensive fruit-breeding program.

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Azalea mollis (Chinese Azalea)			Hex rotundifolia (Round-leaved Japanese Holly)			Pieris japonica (Japanese Andromeda)		
Flame shades, mixed			6 to 8 ins., 1-yr., T.	\$0.25	\$0.22	6 to 8 ins., 2-yr., T.	\$0.35	\$0.32
6 to 8 ins., 2-yr., T.	\$0.22	\$0.18	8 to 10 ins., 2-yr., T. ....	.38	.35	8 to 10 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.48	.45			
8 to 12 ins., 3-yr., T. ....	.45	.40	12 to 18 ins., 3-yr., T. ....	.60	.50	Pinus mugo (Dwarf Mugho Pine)		
Azalea Ghent pontica , pastel shades			12 to 18 ins., 5-yr., T., field-row spaced	1.00	.90	3 to 5 ins., 3-yr., T. ....	.20	.18
Very hardy.						5 to 8 ins., 4-yr., T. ....	.25	.20
2 to 4 ins., 2-yr., T. ....	.30	.28				Pinus nigra (Austrian Pine)		
4 to 6 ins., 3-yr., T. ....	.35	.32	Juniperus Andorra (Purple Andorra Juniper)			8 to 10 ins., 4-yr., T. ....	.15	.10
6 to 10 ins., 3-yr., T. ....	.45	.40	6 to 8 ins., 1-yr., T. ....	.30	.28	8 to 12 ins., 5-yr., T. ....	.22	.18
Azalea mucronulatum , lavender			8 to 10 ins., 3-yr., T. ....	.45	.40	10 to 15 ins., 5-yr., T. ....	.28	.22
4 to 8 ins., 2-yr., T. ....	.35	.32	10 to 12 ins., 3-yr., T. ....	.50	.45			
8 to 10 ins., 3-yr., T. ....	.45	.40	12 to 15 ins., 4-yr., T. ....	.60	.55	Pyracantha coccinea lalandi (Firethorn)		
10 to 15 ins., 3-yr., T. ....	.55	.50				6 to 8 ins., 2-yr., T. ....	.32	.30
Buxus sempervirens welleri (Weller's Hardy Boxwood)			Juniperus canadensis aurea (Golden Canadian Juniper), spreader			8 to 12 ins., 2-yr., T. ....	.40	.38
4 to 6 ins., 2-yr., T. ....	.28	.25	4 to 6 ins., 1-yr., T. ....	.25	.22	Rhododendron Hybrid , various colors		
6 to 8 ins., 2-yr., T. ....	.35	.32	6 to 8 ins., 2-yr., T. ....	.35	.32	Seedling-grown from red plants, very hardy.		
8 to 10 ins., 3-yr., T. ....	.45	.40	8 to 10 ins., 3-yr., T. ....	.45	.40	3 to 5 ins., 3-yr., T. ....	.45	.40
10 to 15 ins., 3-yr., T. ....	.55	.50				5 to 8 ins., 4-yr., T. ....	.55	.50
Chamaecyparis filifera aurea (Golden Thread Cypress)			Juniperus glauca hetzi (Hetz Juniper)			8 to 10 ins., 4-yr., T. ....	.55	.50
8 to 10 ins., 3-yr., T. ....	.45	.40	8 to 12 ins., 2-yr., T. ....	.35	.30	10 to 15 ins., 4-yr., T.	1.00	.90
Chamaecyparis lawsoniana allumi Columnar, blue.			10 to 12 ins., 3-yr., T. ....	.40	.35	Rhododendron calawbiense (Calawba Rhododendron)		
8 to 10 ins., 2-yr., T. ....	.30	.28	12 to 15 ins., 3-yr., T. ....	.55	.48	2 to 4 ins., 3-yr., T. ....	.35	.30
10 to 12 ins., 3-yr., T. ....	.45	.40	12 to 18 ins., 3-yr., T., cut back	.65	.60	4 to 8 ins., 3-yr., T. ....	.45	.40
12 to 18 ins., 3-yr., T. ....	.55	.50				Rhododendron maxima		
Chamaecyparis plumosa aurea (Golden Plumed Cypress)			Juniperus hibernica fastigiata (Compact Irish Juniper)			2 to 4 ins., 3-yr., T. ....	.35	.30
6 to 8 ins., 2-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.35	.30	4 to 8 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 3-yr., T. ....	.40	.35	10 to 12 ins., 2-yr., T. ....	.38	.33	8 to 12 ins., 3-yr., T. ....	.50	.45
10 to 15 ins., 3-yr., T. ....	.50	.45	12 to 18 ins., 3-yr., T. ....	.45	.40	Sophora japonica (Japanese Pagoda Tree)		
Chamaecyparis squarrosa , mossy, green foliage			Juniperus horizontalis glauca Blue-green spreader. Very low.			4 to 8 ins., 3-yr., T. ....	.25	.20
8 to 12 ins., 3-yr., T. ....	.35	.30	6 to 8 ins., 2-yr., T. ....	.35	.32	10 to 15 ins., 3-yr., T. ....	.35	.30
8 to 12 ins., 3-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.40	.35	Taxus capitata (Upright Japanese Yew), seed-grown		
Cotoneaster horizontalis (Rock Spray)			10 to 15 ins., 3-yr., T. ....	.50	.45	4 to 6 ins., 3-yr., T. ....	.35	.30
4 to 6 ins., 3-yr., T. ....	.25	.22	Juniperus pfitzeriana			6 to 8 ins., 4-yr., T. ....	.40	.35
6 to 10 ins., 3-yr., T. ....	.38	.32	8 to 10 ins., 2-yr., T. ....	.45	.40	8 to 10 ins., 4-yr., T. ....	.50	.48
Euonymus fortunei coloratus Procurrent broad-leaved evergreen creeper.			10 to 15 ins., 3-yr., T. ....	.55	.50	10 to 15 ins., 4-yr., T. ....	.75	.65
8 to 12 ins., 2-yr., T. ....	.25	.22	Juniperus pfitzeriana compacta Nelson variety blue spreader.			Taxus cuspidata (Spreading Yew)		
12 to 18 ins., 3-yr., T. ....	.35	.32	6 to 8 ins., 3-yr., T. ....	.35	.30	6 to 8 ins., 2-yr., T. ....	.38	.35
Euonymus fortunei erectus (Big-leaved Winter Creeper)			8 to 10 ins., 4-yr., T. ....	.45	.40	8 to 10 ins., 2-yr., T. ....	.45	.40
10 to 15 ins., 3-yr., T. ....	.35	.30	10 to 12 ins., 3-yr., T. ....	.55	.50	10 to 15 ins., 3-yr., T. ....	.55	.45
12 to 18 ins., 3-yr., T. ....	.45	.42	12 to 15 ins., 4-yr., T. ....	.65	.55	Taxus media hicksii (Hicks' Yew)		
Euonymus radicans vegetus (Evergreen Winter Creeper)			Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)			6 to 8 ins., 2-yr., T. ....	.35	.30
Orange berries.			8 to 10 ins., 2-yr., T. ....	.40	.35	8 to 10 ins., 2-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.50	.45	10 to 15 ins., 3-yr., T. ....	.55	.50
10 to 15 ins., 3-yr., T. ....	.45	.40	12 to 15 ins., 3-yr., T. ....	.60	.55	Thuja occidentalis douglasii aurea (Geo. Peabody Arborvitae) Golden pyramid.		
12 to 18 ins., 4-yr., T. ....	.50	.45	Juniperus squamata meyeri (Meyer's Juniper), blue-green			6 to 8 ins., 2-yr., T. ....	.35	.32
Euonymus alatus (Winged Euonymus)			6 to 8 ins., 2-yr., T. ....	.40	.35	8 to 10 ins., 3-yr., T. ....	.45	.40
4 to 6 ins., 3-yr., S. ....	.18	.15	8 to 12 ins., 3-yr., T. ....	.50	.45	10 to 12 ins., 3-yr., T. ....	.55	.50
6 to 10 ins., 3-yr., S. ....	.25	.20	Juniperus stricta (Spiny Greek Juniper)			Thuja occidentalis elegantissima lutea Foliage golden tipped over dark green.		
10 to 15 ins., 3-yr., S. ....	.38	.32	6 to 8 ins., 2-yr., T. ....	.40	.35	6 to 8 ins., 2-yr., T. ....	.35	.30
Hex crenata (Japanese Holly), pyramidal.			8 to 12 ins., 3-yr., T. ....	.48	.40	8 to 10 ins., 3-yr., T. ....	.40	.35
6 to 8 ins., 1-yr., T. ....	.25	.20	12 to 15 ins., 3-yr., T. ....	.55	.45	10 to 12 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.35	.32	Koeleruteria paniculata (Golden-Rain Tree)			12 to 15 ins., 4-yr., field, T. ....	.55	.50
10 to 15 ins., 3-yr., T. ....	.48	.45	5 to 12 ins., 3-yr., field, T. ....	.22	.18	15 to 24 ins., 4-yr., T. ....	.65	.60
12 to 18 ins., 3-yr., T. ....	.65	.60	12 to 24 ins., 4-yr., field, T. ....	.35	.32	Thuja occidentalis globosa (Woodward Globe Arborvitae)		
Hex crenata convexa (bullata) (Box-leaved Holly)			Leucothoe catesbaei (Drooping Leucothoe)			6 to 8 ins., 1-yr., T. ....	.28	.25
6 to 8 ins., 1-yr., T. ....	.25	.22	8 to 10 ins., 3-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.40	.35
8 to 10 ins., 2-yr., T. ....	.38	.35	10 to 12 ins., 3-yr., T. ....	.45	.40	10 to 12 ins., 3-yr., T. ....	.48	.45
10 to 12 ins., 2-yr., T. ....	.48	.45	12 to 15 ins., 3-yr., T. ....	.55	.50	12 to 15 ins., 3-yr., T. ....	.55	.50
12 to 15 ins., 3-yr., T. ....	.65	.55	Liquidambar styraciflua (Sweet Gum) 2-yr., S., bed run	.10	.08	Thuja occidentalis pyramidalis		
12 to 18 ins., 5-yr., field-row spaced	1.00	.90	10 to 15 ins., 2-yr., S. ....	.12	.10	10 to 12 ins., 2-yr., T. ....	.45	.40
Hex crenata hetzi An improved form of convexa.			12 to 18 ins., 3-yr., T. ....	.20	.18	12 to 15 ins., 3-yr., T. ....	.55	.50
6 to 8 ins., 2-yr., T. ....	.30	.28	18 to 30 ins., 3-yr., T. ....	.25	.22	15 to 18 ins., 4-yr., T. ....	.65	.60
8 to 10 ins., 2-yr., T. ....	.40	.38	Picea pungens (Colorado Blue Spruce)			18 to 24 ins., 4-yr., T. ....	.70	.65
10 to 15 ins., 3-yr., T. ....	.55	.50	4 to 6 ins., 4-yr., T. ....	.20	.18	Thuja occidentalis pyramidalis		
Hex crenata helleri (Heller's Dwarf Holly)			6 to 8 ins., 4-yr., T. ....	.30	.28	10 to 12 ins., 2-yr., T. ....	.45	.40
3 to 6 ins., 2-yr., T. ....	.35	.30				12 to 15 ins., 3-yr., T. ....	.55	.50
4 to 8 ins., 3-yr., T. ....	.45	.40				15 to 18 ins., 4-yr., T. ....	.65	.60

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise 1/2 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

Write for our complete price list.

PALLACK BROS. NURSERIES, INC.

Phone: Zelienople 789 (or 644 evenings)

(We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rt. 19)

R. D. 1, HARMONY, PA.

PACIFIC COAST NURSERY

Specializing in
**FRUIT TREE
 SEEDLINGS**
 and
**SHADE
 TREES**



Established 1914 by
 JOHN HOLMASON

**MYROBOLAN
 MAZZARD
 MAHALEB
 APPLE
 PEAR
 and QUINCE
 SEEDLINGS**

Present Owners: JOHN HOLMASON and MARTIN and J. P. HOLMASON

Rt. 1, Box 114-B



Portland, Oregon

Dear Fellow Nurserymen:

Most of you know that I turned over the hardest part of our nursery business to my two sons, but I am still one of the partners. I took care of the business with the help of my wife for about 30 years.

During those years, we did not have much business and the hard part was to get the business, and, believe it or not, it was hard, but finally we began to get ahead. BUT I could not have done it without God's help first, and, second, my wife helped to do a job that was important in looking after the correspondence, and I cannot forget to add the help from my two faithful sons, Martin and John Holmason.

My son Martin takes care of our nursery at Portland, Ore., and John looks after the nursery at Sunnyside, Wash. We have at Sunnyside 400 acres of the best land in Yakima Valley and 400 acres of the finest land in the Portland area.

In our line of business, I hardly think you can find cleaner nurseries in the country. I am inviting any nurseryman that happens to come to the Pacific coast to visit our nurseries, so we can prove what I say is true. My sons grew up in the nursery business and I am proud to say that they are experts in their line.

Just 20 years ago, as many of you know, I lost my right eye, and the vision in my left eye has become so dim that I must have an operation for cataract in a few days. My doctor encourages me by saying that, after the operation, I will see as good as I ever did. I will appreciate it if my friends will say a little prayer for a successful operation on my eye as I want to see you all again if it is possible. May God bless each one of you.

Your friend,

John Holmason

Pacific Coast Nursery.



it's the new Keiding ART-POT!

NOW...KEIDING ADDS

... and more profits to your nursery

COLOR

Picture your plants, bushes and trees planted in these new colorful Keiding ART-POTS, and imagine the impression you'll make on your customers. Especially when they find out they can do their landscaping anytime . . . and they don't have to bother removing the plant from the pot. It's a built-in mulcher that won't fall apart until after it's in the ground.

it has real buyer appeal **HERE'S WHY:**

Striking Green or Brown color adds that extra touch to your display, giving an impression of quality.

Plants actually thrive through as much as 9 months in your sales yard . . . looking better than when they were first potted.

Landscaping can be done anytime . . . spring, summer or fall. Root growth is not disturbed. Transplant shock is completely avoided.

Bushes or trees are planted, pot and all. Right planting depth is assured. After, pot breaks down and acts as mulcher.

KEIDING

PAPER PRODUCTS CO.

4545 W. Woolworth Ave.
Milwaukee 18, Wis.

... AND here's how you **SAVE**



COLORFUL

new KEIDING ART-POTS

assure faster, easier sales . . .

from spring to fall

HERE'S THE PROOF:



ART-POTS, because they're "self-airing," let air and moisture reach roots, promoting rapid, abundant root growth. Set them anywhere. They won't crack or break. and there's no sharp edges on which to cut your hands. Holes in the bottom assure proper water drainage. Stocks mature faster from planting to sales stage . . . this means rapid turnover. And in ART-POTS, stocks are saleable 8 or 9 months out of the year.

TO HELP YOU SELL!

TO HELP YOU

MERCHANDISE!

NOW for your convenience

We have potted our nursery stocks in Keiding Art-Pots. Now you can do your landscaping anytime . . . Spring, Summer, Fall.



Hang this wall chart in your nursery. It informs your customers that you're using the latest planting methods to eliminate work for them. It also tells them what to do when planting. But mainly, this chart sells YOU as an aggressive businessman.

KEIDING PAPER PRODUCTS CO.

4545 W. Woolworth Avenue, Milwaukee 18, Wisconsin

Gentlemen:

Please send additional information and prices on your ART-POTS.



ABOVE: These ART-POTS have been outdoors in a Growing Yard from March thru October and still have the necessary appeal to attract sales.

LEFT: Six months in this sales lot, and these trees are still selling. Keiding pots are durable, just as colorful as when first set out.

LOWER: This yard is "pretty as a picture." Keiding's ART-POTS add the "quality-touch" to this nursery. They sell all summer long.



Fill in and mail the coupon today. You'll get all the facts on Keiding's new ART-POTS. They're available in seven popular sizes . . . from 14" x 13" to 5" x 5". They're ready to use, no set-up problems. And of course, they're nested for compact storage. Write today.

YOURS To TEST **FREE!**

3

NEW TAT PRODUCTS

To Protect Your Stock—Increase Your Profits!

TAT-GO

PROTECTS AGAINST ANIMAL DAMAGE

HIGHLY EFFECTIVE — LONG LASTING

TAT-GO uses an entirely new type of adhesive binder to give long-term retention. Its repellent action is based on thiram, found by the U. S. Fish and Wildlife Research Laboratory, Denver, Colo., to be highly effective against rabbits and extremely useful in protecting against deer, meadow mice, deer mice and certain other animals, including livestock.

TAT-GO may be applied at any time of the year, to growing or dormant stock. Not injurious to any type of plant, tree, bush, shrub or crop. When applied in the fall, TAT-GO should retain its effectiveness all winter. It is not removed by rain or snow.

Approved by U. S. Department of Agriculture for experimental use. Dilutes with water.

TAT-LOK

*Reduces Winterkill—
Preserves Green Cuttings*

Creates breathable film that reduces transpiration loss. Indicated for the protection of ornamentals and evergreens from winterkill due to high winds, low temperatures when ground is frozen and snow coverage is at a minimum. Dilute with 7 parts of water.

Lengthens life of cut greens, wreaths, Christmas trees. Imparts attractive luster and retards dropping of needles. Dilute with 7 parts of water.

STICKER-SPREADER—assures long-term retention of insecticides, fungicides, weed killers. Guards against washoff from rain or watering. Use 4 oz. per finished gallon of spray.

TAT-P.T.A.

*Promotes Healing of
Wounds and Cuts*

An entirely new plastic tree aid. Produces a transparent water-impervious film that stretches as tree or bush grows. Protects against entry of moisture, decay organisms, boring insects. Aids natural healing process of pruning cuts and wounds.

FREE SAMPLES

of any of these new products are available to nurserymen and landscape men. Fill out coupon and clip to your letterhead.

BRAND-NEW FOR LAWNS

DI-MET P.C.C.

Kills crab grass seeds in the soil. 5-year residual action. Automatic grub-proofing.

O. E. LINCK CO., Inc.

CLIFTON, N. J.

Manufacturers of

MO-GO, DI-MET, STAYZ-GREEN

O. E. LINCK CO., INC., CLIFTON, N. J.

Please send me samples of

☐ TAT-GO ☐ TAT-LOK ☐ TAT-P.T.A. ☐ DI-MET P.C.C.

NAME.....

ADDRESS.....

CITY..... STATE.....

PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

COMPETITION

Many nurserymen are complaining about the competition from mercantile organizations that are not regularly engaged in the nursery business. Their complaints are directed chiefly against variety, department and grocery stores. The most bitter complaints of all are against the chain supermarkets.

The gist of the complaints is this: The quality of the nursery stock is poor; plants are not well cared for; frequently plants are dead when sold, and prices are too low.

These charges are often justified. Any nurseryman who has observed the nursery stock offered by supermarkets (either chain or privately owned) is well aware that in most instances the quality is poor. The grades are substandard. One often sees stock that can be classed only as cull. Shrubs with single stems, trees with bad crooks and forks, roses with broken and split tops, poorly grown evergreens with roots in bags of dry, loose soil are all too common.

That the roots are frequently pitifully inadequate is clearly borne out by the fact that the wrappings are entirely too small to hold a good root system.

Inadequate Handling

Because there is not room enough in the store to display such bulky merchandise as nursery stock, it usually is displayed on the sidewalk in front of the store or in the adjoining parking lot. It is given no protection from the sun or wind. On rare occasions, when the idea occurs to someone, the plants are sprinkled with a hose but not in any manner that will do them good.

It is not long under such conditions before some of the plants start to dry out and soon die. Rarely are they removed from sale, but sometimes the prices are reduced to move them.

In one known instance, a quantity of balled and burlapped Pfitzer junipers was displayed on the walk in front of a supermarket for several weeks. They began to look bad; so the store manager built a special rack inside the store to hold them. It was not practical to water the plants indoors, but they were past reviving

anyway. They were offered for sale long after they were dead.

Last spring, in a large midwestern city, a chain of supermarkets advertised 25,000 rosebushes at 25 cents each. They came in big trucks, bare root, and were thrown off with pitchforks onto the parking lot. Of course they were culls. When they did not sell at 25 cents they were advertised at 19 cents. How many of them grew is speculative.

Uninformed Selling

Another charge against the stores is that they often offer for sale varieties that are not hardy in their area. There is no doubt this frequently happens. And just as often neither the salesperson nor the purchaser is aware of this fact.

When chain stores are involved in such malpractices, the local manager may not be responsible. He is han-

dling nursery stock because he has instructions from headquarters. If known well enough, he may even confide in one that he knows nothing about nursery stock and wishes he did not have to handle it at all.

Buying for syndicate stores usually is done from some central office. The buyer is responsible for several lines of merchandise, most of them more important than nursery stock. He may know nothing at all about nursery stock, but depend upon the sources for recommendations. Buyers are sometimes misled by unscrupulous nurserymen. On the other hand, buyers are just as guilty of putting on pressure to obtain low prices.

Purchasers Suffer

The public is not served by such practices. On the contrary, they constitute a serious disservice. The purchaser does not get value received; he is disappointed in his results and hesitates to try again. He bought from an institution that he had a right to assume was reliable. Consequently he is justified, in his own mind at least, in concluding that it is not much use to try to grow plants—he cannot make them grow.

The low prices at which supermarkets sell nursery stock are to be

PENNSYLVANIA EVERGREEN SEEDLINGS

We have the best for Christmas trees. Pines, Spruces, Firs. Send for listing today.

SCHROTH'S NURSERY

Indiana, Pa.

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In varieties,
certified for western shipment.

BULK'S NURSERIES

610 W. Montauk Hwy.

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ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.



CHRISTMAS TREES

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Seedlings & Transplants

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Nurseries Indiana, Pa.

Dept. A, P. O. BOX 670



Hollies
NOTHING BUT RETAIL QUALITY
3 to 12 IN. CONTAINER-GROWN
AMERICAN - ENGLISH - CHINESE
Native American Holly Farms
115 S. PENN ST. MANHEIM, PA.

IN MEMORY PAUL OFFENBERG

1881—1958

We wish to announce to the industry the passing of our beloved founder, father and husband. It is our intention to continue to serve the industry in the manner for which he was so well known.

Mary Offenbergs, Bernard J. Decker, Sebastian Schuh.

THE PAUL OFFENBERG NURSERY CO.

Columbus 13, Ohio

OUR "FUTURE" IS AT HAND

... and we are now able to supply, for spring shipment, the material we have long been promising you and ourselves.

Our expanded nursery, in our newly cleared areas, is yielding the finest quality of *taxus* liners we have ever been able to offer, in the following varieties:

Cuspidata

Browni

Andersoni

Halloran

Hicksi

Mooni

Media

Hicksi

Mooni

Nana erecta

Browni

Hatfieldi

in 4-yr., TT., \$550.00 per 1000

in 5-yr., TT., \$700.00 per 1000.

A. N. PIERSON, INC.

Cromwell, Conn.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas—well-budded, sheared, heavy stock, excellent foliage—over 200,000 for fall and spring delivery. (All B&B)

Azalea Gable

Louise Gable, double pink	Each
Rose Bud, double pink	
Rose Greeley, white	
6 ins.	\$0.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50
24 ins.	6.50

Azalea Kurume

Addy Wery, deep vermillion	
6 ins. ....	.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50

Amoena, purple-red

Apple Blossom, shell-pink

Coral Bells, pink

Daybreak, light pink

Favorite, deep rosy-pink

Hinodegiri, very dark red

Hino-Crimson, crimson

Maxwelli, red

Orange Beauty, orange

Polaris, double white

Snow, white

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
(Hinodegiri only)	
30 ins.	6.00
36 ins.	7.50

Azalea Knaempferi—hardest of all azaleas

Carmen, large, rose-colored

Fedora, pink

Louise, red

Othello, brick-red

Salmon Beauty, salmon-colored

8 ins.	Each
10 ins.	\$0.75
12 ins.	1.00
15 ins.	1.25
18 ins.	2.00
20 ins.	2.50
24 ins.	3.50
30 ins.	5.00
36 ins.	6.00
	7.50

Azalea Vuykiana

Beethoven, mauve,

waved petals

Johann Strauss, single rose,

blotched

Ledifolia Alba, white

Lilacina, fragrant, lilac-

colored

Mollis, pink, yellow, orange

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

Rooted Cuttings ready November 1, \$50.00 per 1000.

Our azalea beds are treated for shipment outside Japanese beetle zone.

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Jericho Turnpike, Middle Island, L. I., N. Y.

Telephone: Yaphank 4-3444

Write for Catalog.

expected when one realizes that most foodstuffs are retailed with very small markup. For this reason, the customary markup on nursery stock is attractive to the grocer. Nurserymen, in order to make a fair profit, must have a markup of at least 50 per cent, up to 66 per cent, or even more. Supermarkets are happy with a markup of only 20 to 30 per cent on nursery stock. They can make a profit on such low percentages, because they have no investment in facilities for care of the stock, give no service and offer no guarantee.

Difficult Problem

The spring of 1958 saw a great increase in the selling of nursery stock by supermarkets. More nurserymen than ever before have become aware of this growing competition and are expressing concern. It has been the subject of talks at nursery conventions and it frequently comes up for discussion whenever nurserymen get together.

Some nurserymen feel that this competition should be covered by legislation on the state level. But just how this can be accomplished, no one seems to know. A grower has the right to sell to anyone, and any store has a right to retail nursery stock if it is properly licensed. The stores are vulnerable only if they resort to illegal practices.

Trade Rule

It is quite possible that the trade practice rules recently promulgated for the nursery industry and administered by the federal trade commission will eventually help to eliminate the malpractices referred to. Rule No. 1 states:

"It is an unfair trade practice to sell, offer for sale or distribute nursery products by any method, or under any circumstance or condition, which has the capacity and tendency or effect of deceiving purchasers or prospective purchasers as to quantity, size, grade, kind, species, age, maturity, condition, vigor, hardiness, number of times transplanted, growth ability, growth characteristics, rate of growth or time required before flowering or fruiting, price, origin or place where grown, or in any other material respect."

Face Cease and Desist Orders

There is little doubt that some of these unfair trade practices have been indulged in by syndicates selling nursery stock. If they were reported and found guilty, they would have to agree to "cease and desist" or subject themselves to prosecution. These cease and desist orders usually are

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"Plant growth improved...stock more saleable thanks to our **FILON FIBERGLASS** greenhouse..."

and it cost us less to build...hardly anything to maintain," says Mr. Emmett Hignight, Hignight Greenhouses, East Moline, Illinois



Look for FILON at your local lumber or building material dealers. Insist on the FILON label on every panel.



"I've never seen such plant blooming! Thanks to our FILON roofing all of our stock thrived, even the plants that arrived frozen last February. They all got exactly the warmth they needed because the low, wide FILON roof span allows heat to remain closer to plants at bench level. FILON keeps heat loss to a bare minimum, so we get along with less costly heating equipment. We also found that by diffusing the sun's rays, FILON allows every plant to receive the same even amount of light. Now we can safely tier our benches and grow more plants in the same floor space."

FILON SAVES MONEY AND TIME IN CONSTRUCTION — "One day was all it took to nail on the FILON. We saved on framing by using standard lengths of lumber. We cut costs by using simple pole construction instead of poured footing. There was no glazing of glass, so we actually saved in every way possible—material, labor and time."

NO MORE MAINTENANCE PROBLEMS — "FILON ended major maintenance costs. We have eliminated replacement due to breakage; no more re-glazing! That's because FILON is shatterproof and weather resistant. Even hail does not damage it. What's more, we don't have to whitewash FILON as we did our glass greenhouse. We sure are sold on FILON."



FILON PLASTICS CORPORATION

LOS ANGELES • NEW YORK • CHICAGO • ATLANTA
DALLAS • SAN FRANCISCO

5-WAY FILON GUARANTEE Superior Fiberglass-and-Nylon reinforced strength • Uniform thickness for easier installation and better diffusion of light and color • Shatterproof for absolute safety • Weatherproof for maximum durability • Exceeds standards published by U. S. Bureau of Standards.



FREE BOOKLET
"Filon Greenhouse"—Gives full facts, money-saving features of FILON fiberglass. Easy construction details. Write for your copy and name of nearest dealer to: Filon Plastics Corporation, 125 Lomita St., El Segundo 21, Calif.



PRINCETON NURSERIES

1300 acres devoted to the production of the finest in ornamental plants.

Featuring shade and flowering trees in wide assortment.

Flowering shrubs, hedge plants, ground covers, evergreens, azaleas, vines, etc.

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Three and Five
Years Old

VAN HOF NURSERIES

Portsmouth, R. I.

EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

TAXUS LINERS

2-yr. transplants in many varieties.
Write for list.

LEGHORN'S EVERGREEN NURSERIES CO., INC.

50 Geer St. Cromwell, Conn.

DEL-MAR-VA NURSERIES

Growers of Quality
Taxus, Ilex and other Ornamentals.
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Phone: Milford, Delaware 4445

given wide publicity, which no syndicate would relish. Other syndicates would be moved to examine their own practices.

Many successful nurserymen are inclined to ignore the competition from chain food stores. They say there is not much they can do about it, anyway, and they cannot afford to spend their time worrying about it. Instead they concentrate on their own business, continuing to offer first-quality merchandise, to give good service and to charge prices that will return them a fair profit. There are plenty of customers who prefer quality and are willing to pay for it. After all, the buyer who is looking for 19-cent roses and 98-cent evergreens is not the customer the nurseryman wants.

JOINS ARBORETUM STAFF

Dr. Donald R. Egolf, a graduate of Cornell University and recipient of a Fullbright fellowship for the past two years, has joined the research staff of the United States National Arboretum, Washington, D. C. With headquarters at the John Innes Institute and the Royal Botanic Gardens, Edinburgh, he traveled in Europe during the past two years on a comprehensive study of herbarium and living collections of the genus viburnum. Dr. Egolf will continue with the breeding and cytogenetics of this group and other important woody ornamentals at the National Arboretum.

RUTGERS SCHOLARSHIP

The Garden Club of New Jersey recently awarded its first Rutgers University scholarship in landscape design to Frank J. Nudge, Carteret. The \$300 award, known as the Elizabeth B. Merriam scholarship, is given to a member of the junior class on the basis of academic excellence, promise of a future contribution to landscape design or ornamental horticulture and participation in campus activities.

Dr. William E. Snyder, professor of ornamental horticulture at Rutgers's College of Agriculture, nominated Mr. Nudge, noting his excellent academic record, membership in honorary societies and other accomplishments. Mr. Nudge was graduated in 1955 from Carteret high school.

R. F. SCHADE is starting Schade Acres Nursery at Itasca, Ill., growing evergreens for the wholesale trade.

LEUCOTHOE CATESBAEI

A good broad-leaved evergreen that grows in dense shade; Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with azaleas and rhododendrons. Fine for flower arrangements.

4 to 6 ins., T. 15c each
6 to 8 ins., T. 20c each
8 to 10 ins., T. 25c each
Can be transplanted now.

TAXUS

Cuspidata, 6 to 8 ins., T. 20c each
Media browai, 6 to 8 ins., T. 25c each
Media hicksi, 6 to 8 ins., T. 25c each
Media hicksi, 8 to 10 ins., T. 35c each

All plants branched and very good root system.

Free packing.

Send for list of unusual plants.

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Each

Pfitzer Juniper

15 to 18-in. spread \$2.50

18 to 24-in. spread 3.25

2 to 2 1/2-ft. spread 3.75

Blue Hets Juniper

15 to 18-in. spread 2.25

18 to 24-in. spread 2.50

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2 1/2 to 3-ft. spread 3.75

ADAMS NURSERY, INC.

Westfield, Mass.

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	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00	

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		Bare-Root Trees		
		10 Lots	100 Lots	500 Lots
• W. SCHLEY				
• GARNER				
• STUART	4 to 5 ft.	\$1.85	\$1.80	\$1.75
• MAHAN	5 to 6 ft., br.	2.35	2.30	2.20
• SUCCESS	6 to 7 ft., br.	3.30	3.20	3.10
• SCHLEY	7 to 8 ft., br.	3.85	3.75	3.65
• BURKETT	8 to 10 ft., br.	4.45	4.35	4.25

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2 to 3 ft.	\$0.85	\$0.80	\$0.75
3 to 4 ft.	1.05	1.00	.95
4 to 5 ft.	1.40	1.35	1.30
5 to 6 ft.	1.85	1.80	1.75

PEARS — KIEFFER - GARBET - DOUGLAS - ORIENT

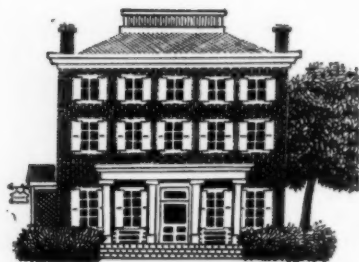
	10 Lots	50 Lots	100 Lots
1 to 2 ft.	\$0.30	\$0.25	\$0.25
2 to 3 ft.40	.40	.35
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OBITUARY

Paul Offenberg

Paul Offenberg, proprietor of the Offenberg Nurseries Co., Columbus, O., died at his home October 1. He was 77 and had been in the nursery business 60 years.

Mr. Offenberg established his nursery at Columbus in 1921, first at 1988 East Livingston avenue; in 1945, because of the eastward growth of the city, he moved the nursery to its present location, 3145 East Livingston avenue. He was a member of the Ohio Nurserymen's Association and the American Association of Nurserymen.

Born at Apeldoorn, Holland, Mr. Offenberg served his apprenticeship in Holland nurseries and later became European export salesman for Blaauw & Co., Boskoop, Holland. Before World War I, Mr. Offenberg was consulted by Count Esterhazy of Austria and the garden director for Kaiser Wilhelm of Germany in the planting of their great estates.

After completing a tour of duty with the army of Holland, he was military courier for the Polish government. Then, while working for the firm of Blat & Prinz in Rotterdam, he became well acquainted with the American consul general there; at his suggestion, Mr. Offenberg came to the United States in June, 1920, and became a citizen in 1926.

Surviving are the widow, Mary; three daughters; a stepdaughter; a son, Paul, Jr.; a brother, Dirk Offenberg, Columbus, and two sisters and one brother in Holland.

G. A. Gritzmacher

G. A. Gritzmacher, 54, vice-president and secretary of Plumfield Nurseries, Inc., Fremont, Neb., died in his home as the result of a heart condition October 4.

Born on a farm near Brunswick, Mo., Mr. Gritzmacher had been in the nursery business 30 years. He left the Keisey Nurseries, St. Joseph, Mo., to join the Plumfield firm in 1937. He was a past president of the Nebraska Association of Nurserymen and had served on various committees of both the state group and of the American Association of Nurserymen.

An officer in the Methodist church, which he attended, he was also active in Masonic organizations and in many other civic organizations. He is survived by his widow, Agnes;

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EVERGREENS: Canadian Hemlock, Concolor Fir, Hetz Juniper and Austrian Pine.

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SHADE TREES: Maple — Norway, Scarlet and Sugar, Niobe Weeping Willow and Pin Oak.

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FIFTY THOUSAND OWN-ROOT RHODODENDRONS

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QUALITY MERCHANDISE
AT REASONABLE PRICES

TAXUS AND OTHER LINERS For Fall or Spring Shipment

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Container-grown plants for immediate pickup.
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Growers of a general line
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Visitors welcome.

FAIRVIEW EVERGREEN NURSERIES
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B. R. AND B & B EVERGREENS? HEDGE MATERIAL? FINISHED STOCK?

FOR—that landscape job—immediate sale—quick returns

	Per 100	Per 1000
Azalea amoena coccinea Splendid dwarf, red flowers. 6 to 9 ins., twice transplanted, heavy, B.R....	\$24.00	\$216.00
Azalea maxwellii (Maxwell Azalea) Superb evergreen, carmine-red. 9 to 12 ins., twice transplanted, heavy, B.R..	28.00	252.00
Sherwood Cerise Azalea A wonderful dwarf evergreen. Bright, clear cerise. 6 to 9 ins., twice transplanted, heavy, B.R....	24.00	216.00
Sherwood Orchid Azalea Flowers clear lavender. Hardy evergreen. 15 to 18 ins., twice transplanted, B&B.....	126.00	.....
Sherwood Red Azalea Compact, dwarf and evergreen. 6 to 9 ins., twice transplanted, near specimens, B.R.	32.00	.....
Buxus sempervirens suffruticosa albo marginata (Silveredge Dwarf Box) Dwarf, silvery. 9 to 12 ins., twice transplanted, B.R.....	69.00	.....
Chamaecyparis lawsoniana minima glauca (Little Blue Cypress) A beautiful true dwarf, bluish-green foliage. 6 to 9 ins., twice transplanted, B.R.....	30.00	270.00
Chamaecyparis lawsoniana monumentalis Slender column, sky-blue or azure foliage. 5 to 6 ft., three times transplanted, B&B....	223.00	.....
Chamaecyparis lawsoniana nestoides (Bird's Nest Cypress) Resembles a mushroom in form of growth. 12 to 15 ins., three times transplanted, B&B.	134.00	.....
Chamaecyparis lawsoniana stewartii (Wintergolden Cypress) One of the most remarkable of conifers. 12 to 18 ins., twice transplanted, near specimens, B.R.	41.00	.....
Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress), heavy type A compact mass of intensely golden filaments. 12 to 15 ins., twice transplanted, B&B.....	134.00	.....

DID YOU KNOW?

That roots grow with a spiral motion, towards moisture, bending away from hard objects, groping away from resistance.

Cytisus purgans (Provence Broom) Dwarf, hardy, compact. A profusion of yellow flowers. 18 to 24 ins., twice transplanted, heavy, B.R.	28.00	252.00
Genista aethnensis (Aetna Woodwaxen) Fragrant yellow flowers. 2 to 3 ft., not transplanted, B.R.....	15.00	135.00
Genista tinctoria (Woodwaxen) Yellow flowers in midsummer. 2 to 3 ft., not transplanted, B.R.....	15.00	135.00
Libocedrus decurrens (Western Incense Cedar) Perfect symmetry of growth. 4 to 5 ft., twice transplanted, B&B.....	243.00	.....
Nandina domestica (Nandina) Attractive shades of red, bronze and scarlet. 18 to 24 ins., twice transplanted, B&B.....	122.00	.....
Picea engelmanni (Engelmann Spruce) Narrow pyramid, bluish-green foliage. 15 to 18 ins., twice transplanted, B.R.....	24.00	216.00
Picea excelsa (Norway Spruce) Defies the blast in cold, exposed situations. 15 to 18 ins., once transplanted, B.R.	21.00	189.00

REFER TO OUR DESCRIPTIVE
CATALOG FOR OTHER ITEMS

Prices F.O.B. Gresham.
25 at 100 rate; 250 at 1000 rate.



	Per 100	Per 1000
Picea excelsa nidiformis (Nest Spruce) Wonderful, dwarf, dark green, flattened globe. 12 to 15 ins., twice transplanted, B&B	\$134.00	.....
Picea excelsa sherwoodii (Sherwood Multnomah Spruce) Beautiful, dwarf, irregular globe. New. 18 to 24 ins., twice transplanted, B&B.....	203.00	.....
Picea pungens (Colorado Spruce) (Green) One of the most desirable of the spruces. 15 to 18 ins., once transplanted, B.R.	21.00	\$189.00

DID YOU KNOW?

That Bristle Cone Pine (*Pinus aristata*) will thrive from sea level to 12,000 feet, will stand a temperature range of more than 160 degrees (minus 50 to 110 degrees) and a humidity range from 3 per cent to almost saturation.

Pinus jeffreyi (Jeffrey's Pine) A rather open picturesque, spire-shaped conifer. 12 to 15 ins., once transplanted, B.R.....	20.00	180.00
Pinus mughus compacta (Mugho Pine) A dense, stout, dwarf evergreen. 9 to 12 ins., twice transplanted, near specimens, B.R.	65.00	.....
Pseudotsuga douglasii (Gray Douglas Fir) Colorado silver-gray strain, a truly stately tree. 15 to 18 ins., once transplanted, B.R.....	22.00	198.00
Taxus baccata (English Yew) This is the old favorite of English gardens. 9 to 12 ins., twice transplanted, hedge grade, B.R.	41.00	.....
Taxus cuspidata (Japanese Yew) One of the most satisfactory of dwarf evergreens. 12 to 15 ins., twice transplanted, hedge grade, B.R.	65.00	.....
Thuja occidentalis (American Arborvitae) Makes fine low hedges or taller windbreaks. 18 to 24 ins., once transplanted, B.R.....	24.00	216.00
Thuja occidentalis aureo-variegata (Goldspot Arborvitae) Possesses delightful freshness and color. 3 to 4 ft., twice transplanted, hedge grade, B&B	122.00	.....
Thuja occidentalis pyramidalis (American Pyramidal Arborvitae) Dense, beautiful column. 5 to 6 ft., twice transplanted, B&B.....	223.00	.....
Thuja orientalis aurea nana (Berckmans Golden Arborvitae) Popular dwarf, golden arborvitae. 15 to 18 ins., twice transplanted, B&B.....	130.00	.....
Tsuga mertensiana (Mountain Hemlock) Magnificent conifer native to rugged areas. 12 to 15 ins., twice transplanted, B.R.....	28.00	252.00
Umbellularia californica (Oregon Myrtle) One of the stateliest and most beautiful. 24 to 30 ins., twice transplanted, B&B.....	142.00	.....
Vaccinium parvifolium (Red Huckleberry) Pink flowers, red berries. 18 to 24 ins., twice transplanted, B&B.....	142.00	.....

DID YOU KNOW?

That Squaw Grass (*Xerophyllum*) is not a grass.

Xerophyllum tenax (Squaw Grass) Graceful symmetrical fountain. 18 to 24 ins., twice transplanted, B&B.....	122.00
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SHERWOOD NURSERY CO.
Evergreens - PROPAGATORS AND GROWERS
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2-Year Transplants

	Each Per 100	Each Per 1000	Each Per 10,000
<i>Taxus brevifolia</i> , 8 to 10 ins.....	\$0.35	\$0.30	\$0.27½
<i>Taxus media hicksii</i> , 10 to 12 ins.....	.35	.30	.27½
<i>Taxus media hatfieldi</i> , 9 to 12 ins.....	.35	.30	.27½
<i>Taxus media browni</i> , 9 to 12 ins.....	.35	.30	.27½
<i>Taxus media Bloodgood</i> , 9 to 12 ins.....	.35	.30	.27½
<i>Taxus media Halloran</i> , 9 to 12 ins.....	.35	.30	.27½
<i>Taxus cuspidata</i> , 10 to 12 ins.....	.35	.30	.27½
<i>Taxus cuspidata densiformis</i> , 8 to 10 ins.....	.35	.30	.27½
<i>Taxus cuspidata thayerae</i> , 10 to 12 ins.....	.35	.30	.27½
<i>Taxus cuspidata kelseyi</i> , 8 to 10 ins.....	.35	.30	.27½
<i>Taxus intermedia</i> , 8 to 10 ins.....	.35	.30	.27½
<i>Thuja occidentalis nigra</i> , 12 to 15 ins.....	.30	.27½	.27½
<i>Thuja occidentalis wareana</i> , 10 to 12 ins.....	.30	.27½	.27½
<i>Thuja occidentalis pyramidalis</i> , 12 to 15 ins.....	.30	.27½	.27½
<i>Juniperus chinensis glauca hetzi</i> , 12-in. spread.....	.35	.30	.27½
<i>Juniperus chinensis pfitzeriana</i> , 8 to 10-in. spread.....	.35	.30	.27½
<i>Taxus cuspidata capitata</i> , 4 to 6 ins., 2-yr., S....	.10	.08½

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Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge

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(Malling Nos. 1-7-9)		
2-yr., 11/16-in. cal.	\$160.00	\$1500.00
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Varieties — Baldwin, Cortland,
Red Delicious, Yellow Delicious,
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3 and 4-yr. transplants.		
24 to 30 ins. . . .	60.00	550.00
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12 to 18 ins. . . .	40.00	350.00

Write for Our Bare-root or Packaged Nursery Stock Catalogs.

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	Per 100	Per 1000
Large landscape sizes		
4 to 5 ft.	\$85.00	\$750.00
3 to 4 ft.	75.00	650.00
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NORWAY MAPLES

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Straight, well-branched		
1¼ to 1½-in. cal., br. . . .	\$50.00	\$475.00
8 to 10 ft., br. . . .	40.00	375.00
6 to 8 ft., br. . . .	30.00	275.00

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In good assortment.

**EVERGREENS
SHADE TREES**

**SHRUBS, VINES
HEDGE PLANTS, etc.**

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

a daughter, Mrs. Thomas Stitt, Aberdeen, Md.; his father, Mark Gritzmacher, Whittier, Calif., and four sisters.

M. Vaughn Woodard

M. Vaughn Woodard, landscape architect and sales manager for the Neosho Nurseries Co., Neosho, Mo., died of a heart attack September 22. He was 58 years old.

A graduate of Coe College, Cedar Rapids, Ia., Mr. Woodard had been associated with the Neosho firm for 33 years. He was well known for his landscape work for institutions and estates at St. Louis and Kansas City, Mo.; Tulsa, Okla., and Wichita, Kan. Active in nurserymen's organizations, he had been president of the National Mail Order Nurserymen's Association, the Western Association of Nurserymen and the Missouri Nurserymen's Association and a director of the National Landscape Nurserymen's Association.

Mr. Woodard was a past president of the Neosho Lions' Club and the Neosho Golf Club and had acted as an elder in the First Christian church of Neosho. Survivors include the widow, Lorena Woodard; a daughter, Mrs. Phyllis Boysen; a son, Vaughn, Jr., and four grandchildren.

Ruth S. Kirby

Ruth S. Kirby, owner of the Ruehl-Wheeler Nursery, San Jose, Calif., was killed September 25 as the private airplane in which she was being flown to Reno, Nev., crashed in a field near Stockton, Calif. The widow of David C. Kirby, San Jose attorney, Mrs. Kirby was active in the California Association of Nurserymen, serving as treasurer of the Peninsula chapter. She is survived by her son, John Kirby, and two daughters, Julie Kirby and Mrs. Catherine Pittman.

Earl Frederick Horsford

Earl Frederick Horsford, Charlotte, Vt., died September 14. He was co-owner of the F. H. Horsford Nursery, which had been established by his father in 1893. Mrs. Horsford, who was active in the business with her husband, will continue the enterprise.

Louise Dosdall

Louise Dosdall, assistant professor of plant pathology at the University of Minnesota, St. Paul, Minn., died September 27, at the age of 67. An instructor of mycology, Miss Dosdall was credited with outstanding accomplishments in her research on botrytis crown rot of iris and its control. She was the author of numer-

FALL, 1958, PRICE LIST

Seedlings

SEEDLINGS, Cont'd

100 1000

<i>Abies lasiocarpa</i> , 2-yr., S., 3 to 4 ins.	100	1000
<i>Acer rubrum</i> , 2-yr., S., 10 to 15 ins.	5.00	45.00
<i>Berberis thunbergii atropurpurea</i> , 1-yr., S., 4 to 8 ins. (Special Permit)	4.50	40.00
<i>Cornus mas</i> , 1-yr., S., 6 to 8 ins.	7.50	...
<i>Crataegus (cordata) phaeopyrum</i> , 1-yr., S., 8 to 12 ins. and up	7.50	60.00
<i>Crataegus (cordata) phaeopyrum</i> , 2-yr., S., 15 to 24 ins. and up	10.00	75.00
<i>Helleborus niger</i> , 3-yr., T.	45.00	...
<i>Koeleria paniculata</i> , 1-yr., S., 6 to 8 ins.	8.00	...
<i>Liquidambar styraciflua</i> , 1-yr., S., 4 to 8 ins.	9.00	75.00
<i>Liquidambar styraciflua</i> , 2-yr., S., 12 to 18 ins.	15.00	100.00
<i>Magnolia virginiana (glauca)</i> , 1-yr., S., 3 to 6 ins.	7.00	...
<i>Mahonia repens</i> , 2-yr., S., 4 to 8 ins.	7.50	...
<i>Myrica pennsylvanica</i> , 1-yr., S., 3 to 6 ins.	5.00	40.00
<i>Picea abies (excelsa)</i> , 2-yr., S., 4 to 8 ins.	5.00	40.00
<i>Picea engelmannii</i> , 2-yr., S., 3 to 4 ins.	6.00	...
<i>Picea pungens glauca</i> , 2-yr., S., 3 to 6 ins.	5.00	40.00
<i>Picea pungens glauca</i> , 3-yr., T.	17.50	150.00
<i>Pinus flexilis</i> , 2-yr., S., 2 to 4 ins.	5.00	40.00
<i>Pinus flexilis</i> , 3-yr., S., 3 to 5 ins.	6.50	...
<i>Pinus mughus</i> (True Dwarf Tyrolean), 2-yr., S., 3 to 4 ins.	5.00	40.00
<i>Pinus mughus pumilio</i> , 1-yr., S., 2 to 4 ins.	5.00	40.00
<i>Pinus nigra</i> , 2-yr., S., 4 to 8 ins.	4.50	40.00
<i>Pinus nigra</i> , 3-yr., S., 8 to 12 ins.	6.00	50.00
<i>Pinus strobus</i> , 2-yr., S., 4 to 6 ins.	5.00	40.00
<i>Pinus sylvestris</i> , 2-yr., S., 6 to 10 ins.	4.50	40.00
<i>Pinus thunbergii</i> , 2-yr., S., 4 to 8 ins.	6.00	50.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S., 4 to 8 ins.	6.00	50.00
<i>Quercus borealis</i> , 1-yr., S., 6 to 8 ins.	6.00	50.00
<i>Quercus borealis</i> , 1-yr., S., 8 to 12 ins.	7.50	60.00
<i>Quercus coccinea</i> , 1-yr., S., 6 to 8 ins.	10.00	75.00
<i>Quercus palustris</i> , 1-yr., S., 6 to 8 ins.	6.00	50.00
<i>Quercus palustris</i> , 1-yr., S., 8 to 12 ins.	7.50	60.00
<i>Sophora japonica</i> , 1-yr., S., 6 to 8 ins.	10.00	...
<i>Sorbus aucuparia</i> , 2-yr., T., 18 to 24 ins. and up	25.00	200.00
<i>Syringa vulgaris</i> , 1-yr., S., 6 to 8 ins.	3.50	30.00
<i>Syringa vulgaris</i> , 2-yr., S., 12 to 18 ins.	9.00	80.00
<i>Taxus capitata</i> , 3-yr., S., 4 to 8 ins.	15.00	125.00
<i>Taxus capitata</i> , 4-yr., T., 6 to 10 ins.	35.00	300.00
<i>Thuja occidentalis</i> , 3-yr., T.	10.00	85.00
<i>Thuja orientalis</i> , 2-yr. transplanted understock	8.50	75.00
<i>Tsuga canadensis</i> , T., 4 to 8 ins.	15.00	125.00
<i>Tsuga canadensis</i> , T., 6 to 10 ins.	20.00	175.00

Bedded Stock 2-Year Transplants

<i>Azalea calendulacea</i>	10 to 25	100
<i>Azalea mucronulatum</i>	3.00	25.00
<i>Azalea schlippenbachii</i>	3.00	25.00
<i>Ilex crenata convexa</i>	4.25	35.00
<i>Ilex crenata rotundifolia</i>	4.25	35.00
<i>Ligustrum Dwarf</i>	2.50	20.00
<i>Wintergreen</i>	3.50	30.00
<i>Rhododendron hybridum</i> , red	3.50	30.00
<i>Rhododendron smirnowi</i> x	3.50	30.00
<i>Hardy Hybrid</i>	4.75	40.00
<i>Taxus cuspidata densiformis</i>	4.75	40.00
<i>Taxus cuspidata F & F compacta</i>	4.75	40.00
<i>Taxus media brownii</i>	4.75	40.00
<i>Taxus media Halloran</i>	4.75	40.00
<i>Taxus media Hicksi</i>	4.75	40.00
<i>Taxus media Moon's columnaris</i>	4.75	40.00
<i>Taxus media wardii</i>	4.75	40.00

Well-Established 2 1/4-in. Pots

<i>Azalea palustrina</i>	10 to 25	100
<i>Azalea Sherwood</i> , red	3.00	20.00
<i>Berberis julianae</i>	3.50	25.00
<i>Berberis thunbergii atropurpurea</i>	3.50	25.00
<i>Berberis triacanthophora</i>	3.50	25.00
<i>Berberis verruculosa</i>	3.50	25.00
<i>Buxus handsworthii</i>	3.00	20.00
<i>Buxus koreana</i>	3.00	20.00
<i>Buxus sempervirens</i>	3.00	20.00
<i>Chamaecyparis Cyano Viridis</i>	3.00	20.00
<i>Chamaecyparis plumosa aurea</i>	3.00	20.00
<i>Chamaecyparis plumosa sulphurea</i>	3.00	20.00
<i>Cotoneaster adpressa praecox</i>	3.00	20.00
<i>Cotoneaster conspicua</i>	3.00	20.00
<i>Cotoneaster decidua</i>	3.00	20.00
<i>Cotoneaster horizontalis</i>	3.00	20.00
<i>Cotoneaster horizontalis perpusilla</i>	3.00	20.00
<i>Euonymus alatus compactus</i>	3.00	20.00
<i>Euonymus carrierei</i>	3.00	20.00
<i>Euonymus japonicus</i>	3.00	20.00
<i>Euonymus patens</i>	3.00	20.00
<i>Euonymus vegetus</i>	3.00	20.00
<i>Ilex aquifolium Ciliata Major</i>	4.00	30.00
<i>Ilex cornuta burfordii</i>	3.00	20.00
<i>Ilex crenata convexa</i>	3.00	20.00
<i>Ilex crenata helleri</i>	3.00	20.00
<i>Ilex crenata microphylla</i>	3.00	20.00
<i>Ilex crenata rotundifolia</i>	3.00	20.00
<i>Ilex glabra</i>	3.00	20.00
<i>Ilex opaca</i> (4 to 6 ins. in the following named varieties.	5.00	40.00
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Cheerful	Judge Brown	Lake City
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Clark	Osa	Merry Christmas
Delia Bradley	6.00	50.00
Farage	5.00	40.00
Femina No. 16	5.00	40.00
Hedge Holly	5.00	40.00
<i>Ilex opaca</i> Arden, fruited	6.00	50.00
<i>Ilex opaca mascula</i>	5.00	40.00
<i>Ilex opaca mascula</i>	5.00	40.00
Brown No. 9	5.00	40.00
<i>Juniperus depressa plumosa</i>	3.00	20.00

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<i>Acer palmatum atropurpureum</i>	10 to 25	100
<i>Bloodgood</i>	8.50	75.00
<i>Acer saccharum monumentale</i>	10.00	90.00
<i>Cornus florida pendula</i>	8.50	75.00
<i>Cornus florida rubra</i>	7.50	65.00
<i>Cornus florida rubra Prosser</i>	8.50	75.00
<i>Cornus kousa chinensis</i>	7.50	65.00
<i>Fagus sylvatica asplenifolia</i>	8.50	...
<i>Fagus sylvatica fastigiata</i>	8.50	...
<i>Fagus sylvatica heterophylla</i>	8.50	...
<i>Fagus sylvatica riversi</i>	7.50	65.00
<i>Fagus sylvatica Tricolor</i>	9.00	...
<i>Hamamelis mollis</i>	7.50	65.00
<i>Ilex opaca Cheerful</i>	8.50	75.00
<i>Ilex opaca Hookstraw</i>	8.50	75.00
<i>Juniperus scopulorum</i>	7.50	65.00
<i>Blue Haven</i>	10.00	...
<i>Magnolia conspicua</i>	9.00	...
<i>Magnolia cordata</i>	9.00	...
<i>Magnolia rustica rubra</i>	8.50	75.00
<i>Magnolia sieboldii parviflora</i>	8.50	75.00
<i>Magnolia soulangeana</i>	9.00	...
<i>Magnolia soulangeana linnel</i>	8.50	75.00
<i>Magnolia soulangeana nigra</i>	7.50	65.00
<i>Parrotia persica</i>	8.00	...
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<i>Pinus sylvestris watereri glauca</i>	8.00	...
<i>Tsuga canadensis sargentii pendula</i>	7.50	65.00

<i>Juniperus horizontalis</i>	10 to 25	100
<i>Bar Harbor</i>	3.00	20.00
<i>Juniperus horizontalis wilsoni glauca</i>	3.00	20.00
<i>Juniperus pfitzeriana</i>	3.00	22.50
<i>Juniperus pfitzeriana compacta</i>	3.00	22.50
<i>Juniperus pfitzeriana nana</i>	3.00	22.50
<i>Juniperus glauca heitsi</i>	3.00	22.50
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<i>Pieris japonica</i>	3.00	20.00
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<i>Pyracantha coccinea falandi</i>	3.00	20.00
<i>Pyracantha coccinea</i> , red	3.00	20.00
<i>Pyracantha wyattii</i>	3.00	20.00
<i>Rhododendron wilsoni</i>	5.00	40.00
<i>Sarcococca hookeriana humilis</i>	3.00	20.00
<i>Taxus baccata repandens</i>	3.50	25.00
<i>Taxus cuspidata</i>	3.50	25.00
<i>Taxus cuspidata aurea</i>	3.50	25.00
<i>Taxus cuspidata capitata</i>	3.50	25.00
<i>Taxus cuspidata compacta</i>	3.50	25.00
<i>Taxus cuspidata densiformis</i>	3.50	25.00
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<i>Taxus cuspidata nana</i>	3.50	25.00
<i>Taxus media brownii</i>	3.50	25.00
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<i>Taxus media Halloran</i>	3.50	25.00
<i>Taxus media hatfieldi</i>	3.50	25.00
<i>Taxus media henryi</i>	3.50	25.00
<i>Taxus media Hicksi</i>	3.50	25.00
<i>Taxus media Moon's columnaris</i>	3.50	25.00
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<i>Thuja occidentalis globosa novum</i>	3.00	20.00
<i>Viburnum bitchiense</i>	3.50	25.00
<i>Viburnum fragrans</i>	3.50	25.00

HESS' NURSERIES

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ous pamphlets and articles. Among other scientific organizations, she was a member of Sigma Xi, national scientific honorary fraternity; the Phytopathological Society, and the American Association for the Advancement of Science.

Robert Scott

Robert Scott, operator of the Kansas Evergreen Nurseries, Manhattan, Kan., died at his farm at Manhattan October 5. He was a charter member of the Kansas chapter of

the American Association of Nurserymen.

Mrs. Henry F. Bosenberg

Elizabeth Bosenberg, North Brunswick, N. J., died October 1. She was the wife of Henry F. Bosenberg, of Bosenberg & Son, Inc., Livingston Park, North Brunswick.

OPEN MISSOURI NURSERY

J. F. McMillan and his sons, James and Alexander, have been is-

sued a permit by the state of Missouri to operate a nursery and Christmas tree plantation at Box 348, R.R. No. 1, Pevely, Mo. The new firm, to be known as Rolling Ridge Nursery, will confine its operations to the greater St. Louis market. At present, approximately 80 acres are being developed in evergreens, ornamental trees and shrubs and Christmas trees. Landscaping services will be offered on a limited basis while a sales organization is being formed and trained.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

FENCES

Fences are often an important part of the landscape. Not long ago, while my wife and I were driving past some houses that were of a monotonous sameness, she remarked, "There is an attractive one." With a second look, we realized the only difference between it and its neighbors was a 2-section bit of otherwise meaningless fence that started nowhere and ended nowhere, but with some attractive planting, made the home look pleasing and different.

Fences can do many things. They can keep the unwanted out of a property or they can keep the wanted in. They can screen and they can soften and, conversely, they can accent. Fences can be used to protect from the elements and even control the climate. Fences can actually be invisible.

Fences also have a wide range of atmosphere, for they can be formal as in a wrought-iron fence or a neat picket fence. They can be informal as in post and rail, split-rail or rustic fences. They can be used to create patterns and designs when enclosing the small back yard, patio or court.

To screen, to hide or to enclose, a solid fence gives the most privacy. The solid board or the woven split wooden fence is best, and one can add interest and design by using post tops and surface molding.

Open Fences Interesting

If it is not necessary to screen an area completely but more desirable to subdue the view or to give a degree of privacy; then a much greater latitude in design of the fence is possible. In fact, 25 per cent air space or openings and 75 per cent solid material will give almost complete screening. The wider the openings are and the less solid material there is, obviously the less privacy is achieved. But the openings can provide interesting designs. While fence construction has shown fewer modern innovations than other phases of architectural construction, fences have been used to some extent in connection with the modern ranch house on the small lot, particularly in the drier climates of the southwest.

The farm estate makes good use

of less formal fencing. There, fences are both attractive and useful, for they are necessary for keeping in the livestock. The types of fences usually used are the extremely informal zig-zag split-rail type, the regular post and rail and the more or less formal 3 and 4-board type. Steel fences have come into use, and several of them have landscape as well as utilitarian value. The so-called hog-wire fence and the barbed-wire fence, when well constructed with green-painted steel posts, are partially invisible or at least unnoticeable; hence, they may be used to blend a lawn into a pasture or to give the impression of extending the property limits to the surrounding countryside. In olden

times on large estates a blending of the lawn with the pasture was done by constructing a ha-ha wall. Today that type would be too expensive to construct, but one can do almost the same thing with a bulldozer and a properly constructed single-wire electric fence. If constructed at the right angle, it is invisible.

Perhaps the only new fence material that has been used has been aluminum, and this metal tends to be too soft. Solid sheets of corrugated plastic are being used, but I have not seen any plastic picket fences, which could be a possibility. Concrete and glass brick have been used, but these probably are more properly considered as walls than as fences.

The tall woven-wire fence found around industrial sites is 100 per cent protective and has no aesthetic value. The wrought-iron fence now is too expensive and is found chiefly in small custom-built sections and is generally used as part of an architectural design.

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500 18 to 24 ins.	2.00	Taxus media hatfieldii	
Juniperus communis depressa		1000 15 to 18 ins.	3.00
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1500 18 to 24 ins.	1.50	Taxus media hicksii	
1000 30 to 36 ins.	2.50	1000 15 to 18 ins.	2.75
Juniperus glauca hetzi		1000 18 to 24 ins.	3.00
2400 12 to 15 ins.	1.50	800 24 to 30 ins.	4.00
3200 15 to 18 ins.	1.75	Taxus media kelseyi	
2000 18 to 24 ins.	2.00	500 10 to 12 ins.	2.00
3000 24 to 30 ins.	2.50	1000 12 to 15 ins.	3.00
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2.75	1.75	1.50	1.37 1/2	1.30	
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RABBIT REPELLENTS

[Continued from page 13]

partment of Agriculture in leaflet 396, Protecting Trees and Shrubs From Rabbit Damage.

A long-used rabbit repellent that is still recommended in New York state is rosin, but it is not recommended by all federal rodent specialists. The formula is one and three-quarters pounds of rosin to one quart of low-grade denatured ethyl alcohol. This material should be strained through cheesecloth or a wire mesh and then may be used in a sprayer. The rates depend on the equipment used, but more alcohol—usually twice as much—should be added to this mixture for best results.

The rosin spray is perhaps the cheapest of the rabbit repellents, but several batches will have to be mixed and applied during the winter. After a heavy snowstorm, additional application is usually necessary, but the spray should be applied only to dry

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1-yr., S., 9 to 12 ins. ..	\$ 5.50	\$ 45.00
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2-yr., T., field-run, grafting size, 6 to 9 ins. ..	15.00	140.00
Tilia cordata		
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Viburnum dilatatum		
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1½ to 1¾-in. cal.; 1¾ to 2-in. cal.

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1½ to 1¾-in. cal.; 1¾ to 2-in. cal.

Pin Oak
2 to 2½-in. cal.; 2½ to 3-in. cal.

Red Oak
1¾ to 2-in. cal.; 2 to 2½-in. cal.

London Plane Tree
1½ to 1¾-in. cal.; 1¾ to 2-in. cal.

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bark. It is clear when applied and then turns whitish in the first rain.

Other Protection

Hunters are also useful in bringing down the rabbit population. The disadvantage here is that usually the hunters do more damage to nursery stock than the rabbits. However, if a nurseryman screens the hunters that are allowed on his property and if they follow local hunting and game regulations, this difficulty should be overcome. They should not be allowed to hunt foxes, however, as foxes keep down the rabbit population too.

Rabbits are easy to trap in the winter. County agricultural agents usually have a plan for construction of a simple trap. Apples or carrots may be used as bait in nonfreezing weather and Purina Fox Pellets in freezing weather. Lures may also be used. (Hawbaker's lures can be obtained from Allcock Manufacturing Co., Ossining, N. Y., at \$1.10 per oz. for 100 sets.) In hot weather, coarse salt is an effective bait. After the first rabbit is caught, its urine may be used in other traps plus the baits or lures.

A possible long-range method of protecting the nursery from rabbits is the placement of various choice ornamentals attractive to rabbits in a few limited nursery blocks. It is difficult to give general recommendations that would be applicable to all nurserymen. A few ideas that might be helpful, however, are the following:

The nurseryman might remove cover for rabbits on his own property and encourage his neighbors to help him out in this regard. That is, they should eliminate hedgerows, brush piles and tall grass where practical and any other natural haunts of rabbits.

The ornamentals that rabbits like best should be planted near the office or sheds, where there is more nursery activity; or in the center of the nursery, if this is distant enough from the natural habitats of rabbits, or in fenced nursery blocks, where a few dogs might be allowed to guard. But, like the hunters, dogs might cause in other ways as much damage as the rabbits. Plants in the accompanying list are grouped according to their appeal to rabbits.

F. F. KNIGHT has purchased the interest of William Siebold in Siebold-Knight, Arborists, Fort Wayne, Ind., and the business will be known as the Knight Tree & Landscape Co.

BIG

We have one of the largest available supplies of big specimen material, including:

- ILEX OPACA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA
- HYBRID RHODODENDRON
- TSUGA CANADENSIS
- GINKGO BILOBA
- AZALEA
- ILEX BUXTIFOLIA

For 40 years
one of America's
leading nurseries

TOWSON NURSERIES
INC.

Office and Nurseries
P. O. BOX 175, COCKEYSVILLE, MD.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES

DEERFIELD, N. J.

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 MILFORD, DEL.

NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

ISAAC LANGLEY WILLIAMS
EXETER, N. H.

A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
BOX 3 SELBYVILLE, DEL.

AZALEAS and HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES
MILFORD, DEL.

ABSTRACTS OF RECENT RESEARCH

DEMETON ON EVERGREENS

Systemic insecticides implanted into the trunks of balsam fir trees were effective in killing larvae of the balsam gall midge, *Itonida balsamica*, and the red-headed pine sawfly, *Neodiprion lecontei*, in experiments by R. L. Giese, D. M. Benjamin and J. E. Casida, of the University of Wisconsin (*Journal of Economic Entomology*, volume 51, No. 3).

Five insecticides were implanted into trees about four inches in diameter and 17 feet high. Technical grade demeton, Thimet and dimefox were introduced directly into the trees, while Chipman R-6199 and American Cyanamid 12880 were introduced as 50 per cent and 10 per cent aqueous solutions, respectively. The chemicals were pipetted into four equidistant 1/2-inch holes made with a brace and bit around the trunk of the tree. After the dosage of one to four grams per tree was implanted, the holes were closed with corks. Five control trees were drilled and corked without the introduction of an insecticide.

Demeton appeared to be the most promising systemic for balsam gall midge larvae. Colonies of the red-headed pine sawfly were also killed by implanting demeton in red pine trees. Dimefox seriously injured the

I.

JUNIPER BLIGHT

A description of juniper blight and progress on its control were reported by Nestor E. Caroselli, Rhode Island agricultural experiment station, Kingston, in the *Plant Disease Reporter*, volume 41, No. 3.

Juniper blight, which is caused by the fungus *Phomopsis juniperovora*, has long been recognized as a serious disease of 1 and 2-year-old junipers. Under nursery conditions this fungus is capable of infecting as high as 40 per cent of juniper seedlings during a single season. Nurserymen have observed that infected plants, used as understock, seldom unite with the scion. Infected plants which appear compatible may not display disease symptoms for one or two years after grafting operations. The fungus may also seriously affect the terminal branches of older plants.

Diseased plants turn a light tan color at the stem tip and die. Seed-

RHODODENDRON

We are growing over 100 named hybrid varieties on their own roots. These are available in sizes ranging from liners to 4-ft., heavy field plants. Our plants are exceptionally nice; most varieties are well-budded. If you need rhododendron, we have the finest. Efficient volume production enables us to quote these low prices. Come see them.

ROSEUM ELEGANS

	Each per 100
12 to 15 ins.	\$ 1.75
15 to 18 ins.	2.50
18 to 21 ins.	3.00
21 to 24 ins.	4.00
24 to 27 ins.	5.00
27 to 30 ins.	5.75
2 1/2 to 3 ft.	7.00
3 to 3 1/2 ft.	8.00

REDS:

America, Dr. Dresselhuys, F. D. Godman, Ignatius Sargent, V. W. Poeiman, John Walter, etc.

15 to 18 ins.	3.00
18 to 21 ins.	3.75
21 to 24 ins.	4.50
24 to 27 ins.	6.00
27 to 30 ins.	7.00
2 1/2 to 3 ft.	8.50
3 to 3 1/2 ft.	10.00

Other varieties of pink and red as well as white, purple, etc., as listed in our fall, 1958, spring, 1959, catalog.

We also offer in quantity, many other varieties of broad-leaved as well as narrow-leaved evergreens in sizes ranging from cash-and-carry to heavy landscape material.

Write for complete list.

ANGELICA NURSERIES

Growers of Fine Plants

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DWARF FRUIT TREES

Many varieties of apple trees growing on Malling Merton 104, 106, 109 and 111. Also on East Malling II, VII and IX.

CRIMSON-LEAVED MAPLE TREES

These are beautifully grown, 6 to 8-ft., well-branched trees at attractive prices.

DWARF PEACH TREES

THE C. D. MORRIS NURSERY LTD.

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EVERGREEN SEEDLINGS

Growers of Quality Evergreen Seedlings and Transplants. Free price list and planting guide. Visitors Welcome

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GROWERS

EVERGREEN TREE LINING-OUT STOCK

Write for free price list.

SUNCREST EVERGREEN NURSERIES

P. O. Box 305-F

HOMER CITY, PA.

NURSERY STOCK

Per 100 Per 1000

Red-leaved Barberry		
2-yr., S., 9 to 12 ins..	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins..	10.00	75.00
Row run, 9 to 18 ins..	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

Ask for list.

BROUWER'S NURSERIES

Box 25

New London, Conn.

FALL, 1958

A few items in quantity.

Biota aurea nana
Juniper, canaerti
Juniper, depressa plumosa
 (Andorra)
Juniper, glauca
Juniper, keteleeri
Juniper, Pfitzer, extra good
Juniper, stricta
Taxus cuspidata
Euonymus alatus
Euonymus alatus compactus
Euonymus erectus
Euonymus patens
Euonymus vegetus
Ash, European Mountain
Cornus florida
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey
Magnolia
Maple, Crimson King
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri

Maple, Silver
Maple, Sugar
Oak, Pin
Prunus Newport
Prunus Thundercloud
Redbud
Sweet Gum, TT, once root-pruned
Tulip Tree
Willow, Thurlow
Almond, Pink
Currant, Alpine
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
Philadelphus aureus
Philadelphus grandiflora
Philadelphus Virginal
Privet, Golden
Privet, Regel's
Privet, Amur North, heavy
Spiraea vanhouttei
Viburnum dentatum

All kinds of fruit trees, 1 and 2-yr.

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Bridgeport, Ind.

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SPECIALS

	Per 100	Per 1000
<i>Cotoneaster acutifolia</i>		
12 to 18 ins.	\$ 8.00	\$ 75.00
9 to 12 ins.	6.50	62.50
6 to 9 ins.	5.00	48.50
<i>Improved Bush Cherries</i>		
1-yr., 18 to 24 ins. .	7.00	65.00
1-yr., 12 to 18 ins. .	6.00	50.00
<i>Improved Bush Cherries,</i> transplanted and branched		
2 to 3 ft.	30.00	285.00
18 to 24 ins.	25.00	200.00
<i>Hardy Crab Apples, seedlings</i>		
No. 1, 3/16-in. cal. and up, straight.		40.00
No. 2, 2.5/16-in. cal. and up, straight.		30.00
<i>Pyrus baccata, seedlings</i>		
No. 1, 3/16-in. cal. and up, straight.		42.50
No. 2, 2.5/16-in. cal. and up, straight.		30.00
<i>Canada Red Rhubarb</i>		
No. 1 division		250.00
<i>MacDonald Rhubarb</i>		
No. 1 division		250.00
<i>Valentine Rhubarb, new</i>		
No. 1 division		400.00

Write for prices on quantity lots.

SUMMIT NURSERIES, INC.
 Stillwater, Minn.

for Quality

Caryopteris
Blue Mist
Deutzia
Gracilis
Privet
California
Ibodium
Spiraea
Japonica coccinea
Willow
Blue-Leaved Arctic
French Pussy

KINGWOOD NURSERIES
 Mentor, O.

ROSES

Quality and Service

MENTOR
ROSE GROWERS, INC.
 MENTOR, O.

Write for your copy of
 our current list.

ling junipers which are badly infected appear to have been killed by drought. Prolonged periods of rain-fall or high humidity, especially in the spring and autumn, favor the spread of the disease. During these periods spores formed in black pin-head-size fruiting bodies on the leaves or stems are discharged and distributed by splashing water or insects. The fungus developing from the spores grows into the main stem, where it may kill the tissues above and below the point of entrance. On some seedlings, small sunken lesions develop, giving the stem a flattened appearance. The causal fungus is capable of overwintering on infected plant parts where it may remain viable for at least two years.

Control Experiments

The effectiveness of various fungicides was tested under conditions of natural inoculations in a commercial nursery. Each fungicide was applied as a spray to four randomized plots. Water alone was sprayed on four plots used as controls. Fungicides were used at the following amounts in 10 gallons of water: Captan, 3.2 ounces; zineb, 3.2 ounces; Kromad, 2 ounces and 4 ounces; Liquiphene, 0.5 ounce; malachite green, 0.25 ounce; Merbam, 1 ounce; Morpholine sulphanilate, 3.2 ounces; dichlorone (phygon XL), 1.6 ounces; sodium sulphanilate, 1.6 ounces, and WK-34 (Upjohn Co.), 1.2 ounces. The sprays were applied five times each during two summers.

All chemicals tested afforded some control, but those which consistently best controlled this disease under conditions of the experiments were Kromad, Merbam and WK-34. A greater number of diseased plants were found in the 2-year-old seedlings as compared with the 1-year-olds. This may have been due to the greater density of foliage on the 2-year plants. Dense shade appears to prevent the adequate ventilation and drying needed to help reduce the incidence of disease. D.

GROWTH REGULATORS INHIBIT GERMINATION

J. C. Crane and M. V. Bradley, of the University of California at Davis, report adverse effects from the use of growth substances on apricot seeds (California Agriculture, October, 1955).

The growth regulators were not applied to the seeds. Previous investigations had shown that such applications prevented germination, and growth regulators are actually used as herbicides because of their

SHERMAN'S SELECT FLOWERING SHRUBS

RIBES ALPINUM (Alpine Current)

Dwarf compact shrub, dark green foliage. May be used for specimens or clipped hedges. Sherman strain.

	Per 10	Per 100	Per 1000
9 to 12 ins.	\$ 3.00	\$25.00	\$225.00
12 to 15 ins.	5.00	45.00	400.00
15 to 18 ins.	6.50	60.00	550.00
18 to 24 ins.	7.50	70.00	650.00
24 to 30 ins.	10.00	90.00	850.00

VIBURNUM OPULUS STERILE

(Common Snowball)

18 to 24 ins.	5.00	45.00	400.00
2 to 3 ft.	6.00	55.00	500.00

SPIRAEA ANTHONY WATERER

Dwarf, red-flowering shrub.

12 to 15 ins.	4.00	35.00	300.00
15 to 18 ins.	5.00	45.00	400.00
18 to 24 ins.	6.00	55.00	500.00

PHYSOCARPUS OPULIFOLIUS NANUS

(Dwarf Ninebark)

Per 10 Per 100 Per 1000

18 to 24 ins.	\$ 3.50	\$30.00	\$275.00
2 to 3 ft.	4.50	40.00	375.00

SYRINGA VULGARIS

(Purple Lilac)

Attractive hardy shrub, purple flowers.

18 to 24 ins.	4.50	40.00	350.00
2 to 3 ft.	5.50	50.00	450.00

ZABELI RED HONEYSUCKLE

Improved strain, red flowers.

2 to 3 ft.	4.50	40.00	350.00
3 to 4 ft.	5.50	50.00	450.00

CORNUS ELEGANTISSIMA

(Variegated Dogwood)

18 to 24 ins.	6.50	60.00	550.00
2 to 3 ft.	8.00	75.00	700.00
3 to 4 ft.	10.00	90.00	.....

We also grow a complete line of hardy nursery stock. Write for new wholesale trade list.

SHERMAN NURSERY CO.

Charles City, Iowa



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

known ability to depress seed germination. In this case, the growth substance (2,4,5-trichlorophenoxyacetic acid) was sprayed on the tree to increase fruit size and prevent preharvest drop.

Seeds collected from the fruit from these trees were placed in germination tests alongside seeds from apricots derived from non-sprayed trees. Germination of seeds from the sprayed trees was poor, and the few seedlings obtained were poor. This work, in 1954, prompted further study in 1955.

In 1955, seeds from trees of several varieties of apricots grown in different parts of California and treated with different growth regulators at various times and concentrations were collected and stratified at

32 degrees Fahrenheit for three and one-half months. All applications had been made at approximately the beginning of the pit-hardening period, the optimal time for application to increase size of fruit, hasten maturity and reduce preharvest drop. Seeds from each lot were planted in sterilized sand in the greenhouse November 22.

It will be noted that some varieties are more easily injured than others. The variability of natural seed viability will also be noted. Apparently 2,4-D was more destructive to the seeds than 2,4,5-T. NAA was intermediate in its effect.

It will be noted that with every increase in concentration of a growth substance, there is a further reduction in the germination and

the viability of the few plants that are produced. It is therefore suggested that nurserymen avoid using seeds from orchards where growth regulator sprays are used. C.

EXOTIC plants will be grown and sold by the Fairwood Nursery, Apopka, Fla., recently started by Mary J. Webb.

COPARTNERS in Sponsler's Nursery & Floral Shop, Visalia, Calif., are Harold J., Myrtle A. and Richard D. Sponsler.

CHRYSANTHEMUMS, along with other late flowers, vegetables, fruits and gourds, were displayed at the recent harvest and chrysanthemum show held at Horticultural Hall, Boston, Mass.

Selling Landscape in the Nursery

By Lucius A. Howard

Two factors that exist within the field of home landscaping and appear to work against each other can both, in fact, be used to advantage, if care is taken. The first factor is the do-it-yourself trend. Nurserymen can stress the simplicity of planting, care and development of property, to increase cash-and-carry sales. The second trend is a desire for expert guidance in design and horticultural matters. The nurseryman's skill and ability are at the disposal of customers who seek planting advice.

Selling landscaping is not necessary when one has a customer who comes to the nursery or store with the idea of having some landscape work done. However, if one waited only for these sure leads, he would be no better than the clerk with an order pad and pencil who makes no effort to sell. No one buys anything unless he wants it or thinks he wants it, and it is the salesman's job to convince customers that they want a product—that is selling.

The successful salesman must first know his product and those to whom he can sell it—his market. Everyone who comes into the garden center is a prospect for landscaping. Though this is a broad statement, it can be justified. A customer who comes into the shop seeking an evergreen, a packet of seeds or some fertilizer does not picture these individual items in his mind. Rather, he sees in his mind's eye a picture of a completed landscape, with his house as the center. He may need the evergreen to complete (or start) his idea of the plant group around his front door, the seeds to grow plants to furnish the color he visualizes in his landscape and the fertilizer to add to the vigor and attractiveness of the plants that make up the sum total of his visualization.

Living Pictures

Landscaping is building living pictures. The better job that the salesman does in enlarging the customer's mental image of his grounds and their potential the more landscape materials he can sell.

Nursery salesmen should take as an example the success story of the sporting goods salesman who sold a

customer desiring a fishing rod not only a pole, but a reel, a boat, an outboard motor, an icebox, a camera, a cookbook, a tent and blankets. In this case, the customer's mental image of himself as a fisherman was fully developed. Landscape salesmen should try to find out how the customer pictures his house ideally and develop that picture.

Nurserymen have landscaping competition. They are not the only ones interested in building landscape sales. Businessmen know that gardening is the nation's No. 1 hobby. They may not be interested in selling landscaping, but they know that the better landscaping picture their potential customer can visualize, the more of their product they can sell, whether it is fertilizer, seeds, insecticides or tools. They are not in a position to deal so intimately with the customer as nurserymen are; so they play up the do-it-yourself idea when they are helping the customer to crystallize his conception of his yard. Free landscape planning guides and landscape idea folders suggest

ways of doing landscaping to the customer and make the work seem easy. The door-to-door salesman with a fast pitch and a color plant book is successful because he builds a picture. However, nurserymen are equipped to do a better job, since they can draw on their horticultural knowledge and they have real plants to show. It is well established that landscaping is a good investment and a contribution to gracious living.

Merchandising Method

Unless nurserymen go after the consumer's dollar, they will lose business to supermarkets, discount houses and hardware dealers. There is a great need for salesmanship in the nursery field, where merchandising is usually poor. Too many garden centers are selling only individual plants when customers come to them. Their displays consist simply of frames of taxus, arborvitae, juniper and so forth. The customer's mental image is not of individual plants, but of groupings. A smart move on the part of the nurseryman is to have beds,

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

GARDEN MUMS and

GROUND COVERS

CUNNINGHAM GARDENS, INC.
Waldron, Ind.

GRAPE CUTTING SPECIAL

Niagara—Concord—Delaware

\$7.50 per 1000, F.O.B.

Wire-bound 100 to bunch.

STATE INSPECTED.

Order Now! No orders accepted after

December 1. Sold out. Will cut until

March 15 on orders.

PAW PAW PLANT CO.

Faw Faw, Mich.

LIVE CHRISTMAS TREES

Each

Norway Spruce

2 to 3 ft., B&B, heavy\$2.75

3 to 4 ft., B&B, heavy 3.75

Scotch Pine

3 to 4 ft., B&B 3.75

4 to 5 ft., B&B 5.25

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R. F. D. No. 3

Shelby, Ohio

NORTHERN-GROWN STOCK

Evergreen Liners

Bleeding Hearts

Ornamental Shrubs

Fruit Trees

French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

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Caryopteris

Well-rooted, outdoor cuttings.

Ready for direct field planting.

\$12.00 per 100, \$100.00 per 1000

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SMALL FRUITS

Complete List of Berry Plants

Raspberries — Blackberries
1 and 2-yr. plants

Currants — Gooseberries
Asparagus — Rhubarb
Thornless Boysenberry

"Midnite" Blackberry

New, large, heavy-fruited.
Introduced 1957.

FRUIT TREES

Apple — Peach

Complete assortment of
the best standard varieties.

ORNAMENTAL SHRUBS

Barberry, Crimson Pygmy
Cornus elegantissima
Cydonia japonica rubra
Euonymus alatus and compactus
Forsythia, in variety
Lonicera, in variety
(including new Clavey's Dwarf)

Hypericum Kalmianum

(Pot O' Gold)

Hardest, most widely adapted
Hypericum. Golden-yellow flow-
ers produced profusely over a
long period in midsummer.

Bittersweet Tree
(Euonymus yedoensis)

Heaviest-fruited Euonymus.
We can furnish berried plants
B&B, 3 ft. or smaller dormant
plants bare-root.

Regel's Privet (true type)
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Viburnums, in variety

EVERGREENS

Specimen Plants for
Landscaping
or Garden Center Sales—
Excellent Color—
Solid Clay B&B

We invite you to visit our nursery,
otherwise check Trade List for vari-
eties and prices.

TAXUS

Hicksi and capitata

ARBORVITAE

Dark Green American, Pyramid
and Globe

JUNIPER

Pfitzer, Green Compact, Hetzi Blue
—Greek, Irish and Swedish

PINE

Scotch, 4 to 5, 5 to 6 and 6 to 7 ft.

LINING-OUT STOCK

Well-grown and well-rooted. Two
acres of seedlings and transplanted
stock all under Skinner irrigation.
Send for Complete List.

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-order Items and Lining-out Stock.

HARDY MUMS AND PERENNIALS

Our list contains the newest and best varieties available in the country. Plants furnished are fully developed, field-grown
clumps, ideal for use as stock plants for your propagations. Write for our complete list of Mums and fine perennials.

DAPHNE CNEORUM (Garland Flower)

This beautiful evergreen subshrub is acclaimed by leading horticulturists as the finest available in its category. Un-
excelled as an edging or specimen in front of foundation plantings. Highly scented, rose-pink flowers cover the foliage in
spring, bloom intermittently in summer and quite fully again in autumn. The plant itself never grows taller than 8 to
10 ins. Our strain has proved hardy and easy to grow. Complete planting directions furnished with each shipment. The material
supplied is ideal for potting, canning or lining out in the field. Every year is a sellout, so order now to avoid disappointment.

2-in. pots Per 10, \$3.00; Per 100, \$25.00
1-yr., 6 to 12 ins., bushy and branched Per 10, 4.50; Per 100, 40.00

P. O. Box 189

THE JOSEPH F. MARTIN CO., INC.

Painesville, O.

not of one specific kind or variety of plant, but of a group of subjects that would naturally be planted together, and the purpose of the beds should be indicated. Beds might be labeled "low plants for under windows," "plants for end of house or accent use," "plants for shady areas" or "plants for doorway accents." Groupings of small decorative trees for the lawn and garden would include magnolias, dogwoods and flowering crab apples. Ground cover plants that are easily maintained should be so labeled. Vines could be grouped as plants to lend color and soften harsh lines. All of these groupings will help the customer to see more clearly the way to develop the picture he has of his house when it is fully landscaped.

Nurserymen can set up permanent displays of border plantings, foundation plantings, ground covers and so forth, showing ideas for landscaping. Imagination and ideas will thus sell landscaping instead of plants.

Picturization

Pictures should be used to assist selling wherever possible, and they should be colored illustrations if they can be obtained. There should be a comfortable place in the store where salesmen can assist customers with landscape planning. A simplified form of landscape planning will speed up this detail. Signs and tie-in displays featuring various related products will also help in selling more merchandise.

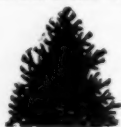
Landscape plans should be dis-

played with pictures of finished work. If possible, the owner of the home that has been landscaped should appear in the picture, so that the customer will have no trouble in identifying with the man who owns such an ideally landscaped home. Testimonials from customers should be displayed near the pictures and plans of their homes in the store area where customers are being aided in planning their own designs. Literature of plants and planting should be available for customers who want to do their own landscaping.

Many landscape sales can be made when the nurseryman takes the time and trouble to develop the customer's ideal concept of his newly landscaped home.

SPECIMEN EVERGREENS

Sheared Full Plants



Austrian and Scotch Pine	
5 ft.	\$ 6.00
6 ft.	8.00
7 ft.	12.00
Andorra Juniper	
18 to 24 ins.	3.00
24 to 30 ins.	3.50
30 to 36 ins.	4.50
Juniper—Pfitzer, Green and Hetz	
24 to 30 ins.	4.00
30 to 36 ins.	4.50
3 to 3½ ft.	5.25
3½ to 4 ft.	6.00
Juniper—Cannert, Burk, Masculin, Keteleer, Dundee, Glauca	
6 ft.	9.50
7 ft.	12.50
Juniper—Keteleer, Masculin, Burk	
3 ft.	3.50
3½ ft.	4.00
American and Pyramidal Arborvitae	
4 ft.	4.00
5 ft.	5.00
6 ft.	5.50
Golden Arborvitae	
15 to 18 ins.	1.75
18 to 24 ins.	2.50
Mentor Barberry	
2 ft. B&B	1.50
2½ ft. B&B	2.25

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Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

HARDY ENGLISH IVY

(Hedera helix)

Rooted cuttings for landscape planting.

\$7.50 per 100; \$65.00 per 1000

BEARDSLEE NURSERY
Perry, Ohio

HARDWOOD CUTTINGS

Unrooted

See our classified ad on page 83.

BOB NEPRASH NURSERIES
Rt. 2, Cedar Rapids, Ia.

STAN SAYS

Planting Large B&B Plants

Unless the planter is in a sandy country, he should place six inches of sand under a heavy plant ball when it is planted. The practice may save the life of the plant.

In planting heavy balled plants (150 to 300-pound balls) we often place them on an extra square of burlap so that we can lift the ball and work fine dirt underneath if necessary. Leave the extra burlap in the hole; two layers of burlap have never hurt a plant. Of course, when one is sure the plant is at the right height, he should open the burlap at the top of the ball and turn it down.

Populus simoni makes a bushier tree for a 12 to 15-foot hedge than Populus nigra italica (Lombardy poplar); trees should be pruned once a year. P. simoni originated in China and has been known for at least 75 years. As the root system is big, I use only 6 to 8-foot or 8 to 10-foot sizes—no larger, and I plant them in early spring. The leaves of P. simoni are darker than those of the Lombardy poplar and they are shaped like pear leaves. P. simoni is supposed to withstand more cold weather than the Lombardy type.

Pruning Notes

Nip spruce at any time; it will not increase buds as in the case of a pine. With blue spruce, prune back new growth just when it is being completed; cut back one half or more of the new growth.

As most nurserymen know, Japanese yews can be cut back severely (with fertilizing at the same time) and will break and cover up the scar that has been made. I have seen the late Mike Sebian (well known for growing good taxus) pruning his taxus at the very opening of spring at Painesville, O., March 20. Lime can be used in taxus and boxwood. I believe in stopping the pruning of evergreens October 1.

Trimming Taxus capitata does not always thicken them up; large "caps" brought into the Pittsburgh district from the east are wonderful to look at when they are first planted, but in four years one can see right through them. Chances are the leaf drop is caused primarily because the plants miss the nightly mist or dew. I know on Long Island, where the yews do beautifully, the ocean is on one side of the island and the

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Lansing 17, Mich.

GERARD K. KLYN, INC.

Mentor, Ohio

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Specializing in newest A. A. R. S. and other newer and older varieties. Taxus, True Red Japanese Maple, American, English and Japanese Hollies, Rhododendrons, Hardy Azaleas and many other choice items. Our list is yours for the asking.

SEND FOR OUR LIST!

Write now for a copy of our new wholesale list which is ready for mailing. It lists a general assortment of shade trees, ornamentals, fruit trees, evergreens and many specialty items. Also a long list of large rooted cuttings ready for field planting and potted and bed-grown liners of many varieties.

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For the finest in

NURSERY-GROWN SEEDLINGS

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MISSOURI
GROWN
IS HARDY...



LINING-OUT EVERGREENS

	Each per 10	Each per 100	Each per 1000
Juniper, Pfitzer			
18 to 24 ins., TTT.	\$1.50	\$1.35	\$1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
Juniper, Pfitzer Hetz			
18 to 24 ins., TTT.	1.45	1.35	1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
Juniper, Savin			
18 to 24 ins., TTT.	1.45	1.35	1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
Thuja occidentalis pyramidalis (American Pyramidal Arborvitae)			
18 to 24 ins., TTT.	1.45	1.35	1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
Thuja occidentalis woodwardii (Woodward Globe Arborvitae)			
9 to 12 ins., TTT.	.70	.65	.60
6 to 9 ins., TTT.	.45	.40	.35

HORIZONTAL OR CREEPING JUNIPERS

Juniper, admirabilis			
12 to 15 ins., TTT.	.75	.70	.65
9 to 12 ins., TTT.	.60	.55	.50
Juniper, adpressus			
12 to 15 ins., TTT.	.75	.70	.65
9 to 12 ins., TTT.	.60	.55	.50
Juniper, Andorra			
15 to 18 ins., TTT.	1.00	.90	.80
12 to 15 ins., TTT.	.75	.70	.65
9 to 12 ins., TTT.	.60	.55	.50
Juniper, petraea			
12 to 15 ins., TTT.	.75	.70	.65
9 to 12 ins., TTT.	.60	.55	.50
Juniper, planifolius			
9 to 12 ins., TTT.	.60	.55	.50
6 to 9 ins., TTT.	.45	.40	.35
Juniper, Waukegan			
12 to 15 ins., TTT.	.75	.70	.65
9 to 12 ins., TTT.	.60	.55	.50

CANNED EVERGREENS

Ideal for over-the-counter trade. In green Plantainers. Can be packed 5 in a basket for shipment. Other varieties and grades available.

	Each per 10	Each per 100
Concolor Fir		
9 to 12 ins., 1-gal.	\$1.45	\$1.20 \$1.10
Andorra Juniper		
12 to 15 ins., 1-gal.	1.55	1.30 1.20
Irish Juniper		
12 to 15 ins., 1-gal.	1.70	1.45 1.35
Pfitzer Juniper		
12 to 15 ins., 1-gal.	1.70	1.45 1.35
Hetz Pfitzer Juniper		
12 to 15 ins., 1-gal.	1.70	1.45 1.35
Savin Juniper		
12 to 15 ins., 1-gal.	1.70	1.45 1.35
Red Cedar		
18 to 24 ins., 1-gal.	1.85	1.60 1.50
Colorado Spruce (<i>Picea pungens</i>)		
9 to 12 ins., 1-gal.	1.45	1.20 1.10
Taxus brownii		
12 to 15 ins., 1-gal.	1.85	1.60 1.50
Taxus capitata		
18 to 24 ins., 2-gal.	2.50	2.25 2.10
12 to 15 ins., 1-gal.	1.85	1.60 1.50
Taxus cuspidata		
18 to 24 ins., 2-gal.	2.50	2.25 2.10
15 to 18 ins., 2-gal.	2.00	1.75 1.65
12 to 15 ins., 1-gal.	1.75	1.50 1.40
Taxus bickelii		
18 to 24 ins., 2-gal.	2.50	2.25 2.10
12 to 15 ins., 1-gal.	1.75	1.50 1.40

Many other items to choose from.

Write for fall wholesale list. Correspondents are requested to use their printed business letterheads. We use every effort to limit the distribution of trade prices to those whom we know to be entitled to receive them.

TERMS: Cash unless satisfactory credit is established. Packing at cost.

PLUMFIELD NURSERIES, Inc. P. O. Box 471 Fremont, Neb.

sound on the other, so that the yews are moistened almost every night. Here in the Pittsburgh district I have always recommended the quick spraying of the yew tops at dusk (it takes but a few minutes). The top of the yew should go to bed wet; the leaves of the rose should go to bed dry.

Specimens

Two cuspidata yews that were planted 36 years ago (1922) have grown to be at least 15 feet high, with a 26-foot spread. Needless to say, they were never pruned and except for being rather open are fine specimens. They are located near Highland park, Pittsburgh.

A specimen of *Styrax obassia* as high as a 2-story dwelling finished blooming May 25 at Pittsburgh; the blooms lasted only one week. This tree self-sowed heavily in the customer's garden; in other words, it grows easily from seeds. A native of the southeastern parts of Japan and of Korea, this plant is entirely hardy, so far, at Pittsburgh. The pendulous flowers are handsome. This plant was first described in 1835 and was awarded a first-class certificate in 1888 by the Royal Horticultural Society.

On-the-spot notes about flowering crabs in 1958: Cheal's Crimson crab

THE FRIENDLY EVERGREENS

By L. L. KUMLIEN

Containing over 500 illustrations, including 82 color plates
\$10.00 per copy, postpaid

Originally published by America's largest and oldest nursery specializing in evergreens, this book covers in nontechnical language the various genera of conifers used in landscape plantings, discussing their characteristics, planting uses, propagation, culture, etc., well illustrated by special drawings.

Bound in cloth of two colors, the book contains 237 pages, 8 1/2 x 11 inches, and more than 500 illustrations, 82 in color, depicting the conifers principally in the trade. The most complete book descriptive of conifers, out of print for several years, this will be welcomed in its new printing by those among trade and public alike who are interested in evergreens.

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Since 1887 in Stark County

At the junction of Rt. 17 and 78
Catering to midwestern landscape
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Shade Trees—Shrubs—Evergreens.

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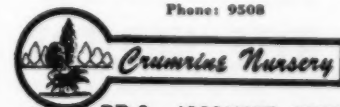


HUSKY LINERS

TAXUS CUSPIDATA

Each
3-yr., beds, T. 25c
2-yr., beds, T. 17c

Phone: 9508



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LINING-OUT STOCK

For Shipment

Fall, 1958—Spring, 1959

POTTED and TRANSPLANTED STOCK

ARBORVITAE	Each Per 100	Each Per 1000
Woodward Globe		
1-yr., 2½-in. pots.....	\$0.25	\$0.17½
BUXUS, KOREAN		
2-yr., 3 to 6 ins.....	.35	.22½
3-yr., 4 to 6 ins.....	.37½	.25
BUXUS, SEMPERVIRENS		
1-yr., pots, 4 to 6 ins....	.30	.17½
2-yr., pots, 4 to 6 ins....	.22½	.20
3-yr., pots, 6 to 8 ins....	.25	.22½
EUONYMUS RADICANS		
ERECTUS		
1-yr., pots, 6 to 8 ins....	.17½	.15
1-yr., heavy plants.....	.22½	.20
HEDERA HELIX (Baltic Ivy)		
2-yr., 12 to 14 ins., stems.....	.12	.11½
JUNIPER, RETZI, blue		
2-yr., pot, 6 to 8 ins....	.22½	.20
3-yr., in beds, heavy....	.37½	.35
JUNIPER, PFITZERIANA		
2-yr., pots, 6 to 8 ins....	.22½	.20
3-yr., pots, 8 to 10 ins....	.27½	.25
3-yr., T., in beds.....	.37½	.35
MAHONIA AQUIFOLIUM (Holly Grape)		
2-yr., pots, 6 to 8 ins....	.22½	.20
TAXUS CUSPIDATA		
1-yr., pots, 6 to 8 ins....	.20	.17½
4-yr., T., light.....	.37½	..
4-yr., T., heavy.....	.45	..
TAXUS HICKSI		
1-yr., pots, 6 to 9 ins....	.20	.17½
3-yr., T., under lath.....	.45	..
VIBURNUM TOMENTOSUM		
PICATUM		
2½-in. pots, 6 to 8 ins....	.25	.22½
2½-in. pots, 9 to 12 ins....	.35	.30
WEIGELA VANICKEI		
1-yr., pots, 6 to 10 ins....	.20	.17½
2-yr., 3-in. pots.....	.27½	.25

Write for complete list. Landscape
stock in October 1 issue.

FLORAL GARDENS NURSERY

25 miles west of Dayton, O. Rt. No. 33
Eaton, Ohio

SHEARED CHRISTMAS TREES

	Each
4000 Scotch Pine 5 to 7 ft.	\$2.65
2000 Red Pine 6 to 8 ft.	2.75
3000 Scotch Pine 7 to 10 ft.	3.25

Prices include delivery and individual bundling within 100 miles of Painesville, Ohio. Over 100,000 sheared trees in our plantation.

Write for our nursery listing.

KYLE NURSERY

1340 W. Jackson St.
Painesville, Ohio

apple, white in flower, good bloomer; *Malus theifera*, flowers hidden by the leaves; *Malus Almey*, fine dark carmine, profuse bloomer.

Taxus Selection

How many varieties of taxus should a 50-acre nursery grow? I should say three upright types (hicksi being one); capitata and four spreaders (browni being one). I know this sounds like practicing austerity, but it will simplify nursery inventory and propagation work. One has to keep one's enthusiasm down in order to eliminate types that are not enough different to grow them. One should always grow three times as many hicksi (or other tall types) as spreaders.

A field of seedling yews can cause one to lose his good disposition; trying to match up six yews is often a task, because the variation is terrific.

Taxus kelseyi has an early fruiting habit and produces large quantities of berries. It makes a broad column. It is necessary to have male and female plants for satisfactory fruiting.

As I was writing the item about reducing the number of taxus one should grow, a price list came to mind that listed about 387 different named varieties of azaleas. I think that most of us could reduce this list drastically.

NURSERY TV ADVERTISING

[Continued from page 10]

frame the home. Trees and shrubs can be made from moss obtainable at a hobby shop and small branches from shrubs.

Styrofoam is an effective base, since trees can be stuck into the material and taken out quite easily anywhere on the surface. If the scale used in constructing the model home is one inch to four feet — a good scale to use — then the trees, shrubs, fences, walks and everything else used in the model must conform to the same scale.

The second week, when the trees are permanently placed, is a good time to locate a rose garden in the back yard of the model — and feature dormant roses in the commercial. Of course, before doing all this, the nurseryman should draw a complete plan, so that the final plantings about the model will be organized and not haphazard. A brief review of the previous week's additions to the model is also recommended.

On the third week the program might feature forsythia and the placement and organization of a shrub border. Additions are made on

LANDSCAPE MATERIAL

B & B

	Each 100 rate
Azalea poukhanensis 15 to 18 ins.	\$3.50
Crataegus cordata 5 to 6 ft.	4.00
Euonymus alatus compactus 2½ to 3 ft.	2.50
Picea abies excelsa 2 to 3 ft.	3.25
Taxus cuspidata capitata From cuttings. 2 to 2½ ft.	5.25
Viburnum burkwoodi 2½ to 3 ft.	2.50

Visit us when in Cincinnati. Nursery office 10 miles northeast of town on U. S. Route 22.

W. A. NATORP CO.

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Cincinnati 29, Ohio

EUONYMUS ALATUS COMPACTUS

Very heavy, outdoor frame-grown, rooted cuttings — some branched — approximately one foot in height. These exceptional cuttings are heavily rooted on last year's wood. Try some and see how good they are.

\$18.00 per 100; \$150.00 per 1000.

BEARDSLEE NURSERY, Perry, O.

NOW SHIPPING

FROST-RIPENED
NORTHERN OHIO GROWN

ROSES

Let us know your needs.

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Phone: EL 2-3030

Mentor, Ohio

DUGAN'S CHOICE NURSERY-GROWN PLANTS!

See page 37, September 1 issue of American Nurseryman, for complete list or write:

DUGAN NURSERIES, INC.
Center St. Perry, Ohio

Northern-Grown Liners Christmas Tree Seedlings Potted Evergreens

Send for price list.

JOHN G. ZELENKA EVERGREEN NURSERY
Rt. 2, Grand Haven, Mich.

subsequent weeks until the model is effectively planted and viewers can visualize how their own home grounds could be planted to provide a more enjoyable place in which to live. Photographs, bold line drawings and 2x2-inch horizontally framed slides can be used to supplement these presentations.

If the nurseryman plans to feature a different plant or product each week, then free literature should be made available at the nursery or garden center, but not from the television address. Leaflets from agricultural extension services or state colleges of agriculture and commercial folders are all interesting to the garden-minded homeowner. One should not expect to get the extension or college publications for nothing or to use them in a state other than the one in which they were published.

The sponsor may wonder how well his program is being accepted. He should not rely on his friends, but should ask the cameraman or prop boys or others on the set, because they will give an honest appraisal. It is difficult to check the results of television advertising, since viewers may be influenced a week, month or year later. Having seen the program, a potential customer remembers the details better than if he had read about the nursery or heard about it from someone else.

Does it pay to advertise via television? I say, yes, but try it and find out for yourself.

MISSOURI TREE GROUP

A group of 40 Missourians interested in Christmas tree production agreed to form a state producers' association at a recent meeting on the University of Missouri campus, Columbia, Mo.

At the meeting, a constitution and bylaws committee was appointed to draw up rules and regulations to govern such an association.

Appointed to the committee were O. G. Urquhart, Harrisonville; Martin Degenhardt, Perryville; Eugene Seabaugh, Oak Ridge; Alfred Stoehr, St. Louis; Austin Harrison, Joplin; J. M. Nichols, Weldon Spring; G. Myron Gwinn, Manchester; and L. E. McCormick, Columbia, extension forester at the university.

After drawing up a constitution and bylaws, the committee is to call another meeting of the producers, sometime in January. At that time, the committee will ask for the approval of the governing rules and regulations and the election of association officers.

TREE LIST FOR FALL AND SPRING 1958 — 1959

	Per 100	Per 1000 1000 lots	Per 1000 in 10,000 lots
Upright Yew , from seed, several times sheared 6 to 10 ins., XX	\$65.00	.....	.....
Scotch Pine			
(2-1), 8 to 12 ins.	12.00	\$60.00	\$56.00
(2-1), 4 to 8 ins.	10.00	45.00	42.50
(2-0), 6 to 10 ins.	8.00	34.00	32.50
* (2-0), 4 to 8 ins.	7.50	24.00	22.00
* (2-0), 3 to 6 ins.	6.00	22.00	20.00
(2-0), 2 to 4 ins.	5.00	16.00	14.50
Scotch Pine, Auvergne, race Noble			
(2-1), 6 to 12 ins.	12.00	60.00	56.00
(2-0), 3 to 6 ins.	8.00	26.00	24.00
Austrian Pine			
(2-1), 4 to 8 ins.	10.00	45.00	42.50
* (2-0), 3 to 6 ins.	6.00	22.00	20.00
Colorado Blue Spruce			
(2-2), 6 to 10 ins. (this one item, fall only)	20.00	.....	.....
* (3-1), 6 to 12 ins.	14.00	75.00	72.50
* (3-0), 5 to 10 ins.	9.00	45.00	42.50
(3-0), 3 to 5 ins.	6.00	26.00	24.00
Norway Spruce			
(3-1), 6 to 14 ins.	12.00	70.00	67.50
* (3-0), 6 to 12 ins.	8.00	40.00	37.50
* (3-0), 3 to 6 ins.	6.00	25.00	23.00
White Spruce			
(3-1), 6 to 12 ins.	12.00	70.00	67.50
(3-0), 5 to 10 ins.	8.00	45.00	42.50
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Black Hills Spruce			
(3-0), 4 to 8 ins.	8.00	40.00	37.50
(3-0), 2 to 4 ins.	6.00	25.00	23.00
Douglas Fir			
(2-0), 3 to 8 ins.	6.00	28.00	26.00
Ponderosa Pine			
(2-1), 3 to 6 ins.	8.00	40.00	.....
Norway Pine			
(2-1), 3 to 6 ins.	8.00	40.00	.....
Mugho Pine			
4 to 8 ins., XX	35.00	.....	.....

*Write for price on 50,000 or more of one grade.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 5% for cash with order; on spring orders, 5% for payment before December 1. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$10.00. Packing charges included in price of trees.

MATTHEWS NURSERY

Harbor Springs, Mich.

Telephones: 123, 124 or 732

JUNIPER GRAFTS

We specialize in grafting of evergreens, strong, 10 to 15-in. grafts, in 2½-in. rose pots. All popular varieties.

\$480.00 per 1000; 300 at 1000 rate.
\$50.00 per 100.

Order now for spring delivery.

Richard P. Tesche

PINE CREST NURSERY

8100 W. 95th St., Overland Park, Kan.
Located 5 miles southwest of
Kansas City, Mo.

Bentley's

HARDY PLANTS

QUALITY—SERVICE

Perennials a Specialty.

2559 Mentor Ave. MENTOR, O.

SUNBURST

(Plant Patent 1313)

The spectacular new Honey Locust with the first new tree color in decades.

Write us for complete information and catalog listing all items.

NURSERYMEN FOR 75 YEARS

THE **COLE** NURSERY CO.
PAINESVILLE, OHIO

4000 1-Gal. Canned Yews

Strong, healthy, 4 yrs. old. Equal amounts of wardi, hicksi and cuspidata spreaders. F.O.B. Ann Arbor, \$1.25 special on entire lot.

NIELSEN'S FLOWERS

Phone: NO 2-3260 Ann Arbor, Mich.

Basic Cost Accounting In Nursery Operations

By LeRoy L. Lee

An accounting system, no matter how simple or complex, is a group of principles and procedures established as a guide for recording and reporting the monetary transactions of a business unit. This system should serve four basic functions:

(1) Recording the business transactions in chronological order, which in accounting terminology is referred to as journalizing;

(2) Classifying the business transactions by grouping together like items. This process starts in the journalizing operation by the identification of account titles and is completed through the posting process, which is the transferring of the amounts to the accounts as indicated in the journal entry;

(3) Summarizing the data accumulated through the processes of journalizing and posting, which is accomplished through the preparation of financial statements, customarily, a balance sheet and a profit and loss statement, and

(4) Analyzing and interpreting the reported information by the accountant or management through the preparation of ratio studies, graphical presentations, comparisons with pre-established budgets, and other available accounting statements.

Journals

The basic books of an accounting system in any business are the journal and the ledger. The journal is the book for recording the transactions. This record shows which accounts have been increased or decreased and the amount of such increase or decrease. The entries are accompanied by a concise statement explaining the transaction.

In some concerns there may be several different journals, depending upon the degree of specialization. Such journals might include a cash receipts journal for the recording of all cash receipts transactions, a sales journal for the recording of all charge sales, a cash payments journal for the recording of all cash

disbursements and a purchases journal for the recording of all purchases of merchandise.

The ledger is the group of accounts to which the journal entries are posted. Again the form may vary widely, depending upon the needs of the company. The various types of ledgers and journals are available at stationery stores and should be acquired and used according to the recommendations of the bookkeeper or the certified public accountant who audits the company's records. These records and the system in general may be extremely simple or complex, depending upon the company's requirements.

The financial statements are prepared at least at the end of a 1-year period, but may be made up monthly or at other designated times. The balance sheet is a report showing the financial status of the company as of the close of business on a particular date. This statement reflects

the amounts and titles of all of the things of value owned by the business (cash, merchandise, trucks, buildings and land). These items are called assets. The statement also shows all of the debts owed to creditors (charge accounts, notes, mortgages). These amounts are given the title of liabilities. Finally, the statement reflects the excess of assets over liabilities. In accounting, this item is referred to as the owner's equity, proprietorship, capital, or net worth.

The profit and loss statement reports the results of operations of the company for a designated period of time, usually one year, although smaller time intervals may be used. This statement reflects the revenues of the company, i.e., the sales of the products, cost of the products sold and the expenses or operating costs incurred. Thus, it might be said that there are six different types of ledger accounts, namely, assets, liabilities, capital, revenues, costs of products sold and operating costs. The first three groups appear on the balance sheet, and the last three appear on the profit and loss statement. These accounts are usually found in the ledger in the same order as listed here.

The revenues less the costs of the products sold result in an amount

WISCONSIN - GROWN CHRISTMAS TREES

Balsam Fir, Native
and Plantation Spruces

Sheared Scotch, White
and Red Pines

Boughs, Wreaths,
Roping

Write for List of
Producers and Products
Offered in 1958

WISCONSIN CHRISTMAS TREE
PRODUCERS ASSOCIATION, INC.

Rm. 2, Forestry and Wildlife Bldg.

424 University Farm Pl.
Madison 6, Wis.

OUTDOOR PLANTS

	Each
Andorra Juniper 6 to 8 ins.	\$.05
Burk Juniper 6 to 10 ins. ....	.14
Blue Hetz Juniper 6 to 10 ins. ....	.05
Pfitzer Juniper 6 to 10 ins. ....	.07
Plant bands ....	.16
Euonymus patens, Small, medium or large-leaved 8 to 10 ins. ....	.04
Forsythia Beatrix Ferrand 6 to 10 ins. ....	.08
Lynwood Gold 6 to 10 ins. ....	.05
Spring Glory 6 to 10 ins. ....	.04
Hypericum hidcote 6 to 10 ins. ....	.06
Honeysuckle, Zabel 10 to 12 ins. ....	.05
Honeysuckle Vine, heckrotti 10 to 12 ins. ....	.05

See classified under lining-out
stock for other items.

Less than 300, total order, 2c
more per plant. Less than 50 of any
item, 4c more per plant.

McININCH GREENHOUSES
St. Joseph, Mo.

Address, "Analysis of Nursery Costs,"
delivered by LeRoy L. Lee, C.P.A., as-
sistant professor of accounting, Univer-
sity of Maryland, College Park, at the
short course for Maryland nurserymen
held at the university early this year.

referred to as gross profit on sales or margin. This amount must be large enough to cover the operating costs or expenses. To the extent that the margin exceeds the expenses, the company has a profit. The cost of goods sold, as the costs of the products sold are generally called, is computed by first adding the cost of the merchandise purchased during the year, or other designated accounting period, to the cost of merchandise on hand at the beginning of the time period. The sum of the two equals the cost of the merchandise available for sale. Then by deducting the cost of the products on hand at the end of the accounting period, the item, cost of goods sold, is derived.

Inventory Plans

The problems arising in conjunction with this computation are the taking of an inventory of the products on hand at the end of the accounting period and the determining of cost. There are several methods available for computing cost. The two most popular are known as first-in, first-out and last-in, first-out. The first-in, first-out (fif) method assumes the products are used in the order in which they are acquired and, therefore, those left are valued at prices paid for the most recent purchases. The last-in, first-out (lif) method works in reverse and thus values the inventory at a cost determined by the earlier prices. The fif) method has the advantage of valuing the inventory at prices close to the present-day cost; whereas, the lif) method has the advantage in periods of rising prices of relating high costs to high selling prices and, consequently, cutting the margin and, in turn, the net profit—and tax dollars.

The operating costs consist of expenses paid or apportioned to the accounting period under consideration. Customarily, these expenses are divided into two groups on the profit-and-loss statement. These groups are referred to generally as selling expenses and general and administrative expenses. The first group consists of those operating costs directly related to sales. These would include such items as advertising, salesmen's salaries and commissions, delivery expenses (gas, oil, depreciation of trucks, truck drivers' salaries) and installing or planting the products sold. The second group includes all remaining expenses not reflected under the selling expense category. Illustrations of these costs would be taxes, office supplies used, office rent, salaries of office personnel and depreciation of office equipment.

It should be noted that the forego-

FALL, 1958—SPRING, 1959

BROAD-LEAVED EVERGREENS

Viburnum burkwoodi	
3 to 3½ ft., B&B	\$3.25
Ilex glabra	
2½ to 3 ft., B&B	\$3.85

SHRUBS

Cotoneaster apiculata		Sweet Shrub	
2 to 2½ ft., B&B	\$2.75	18 to 24 ins.	\$1.00
2½ to 3 ft., B&B	3.25	2 to 3 ft.	1.25
Red Twig Dogwood		Spiraea Anthony Waterer	
2 to 3 ft.	1.00	12 to 15 ins.	1.00
Flowering Quince		2½ to 3 ft.	2.00
2 to 3 ft.	1.00	Spiraea billiardi	
Lilac, microphylla		4 to 4½ ft.	1.50
3 to 3½ ft.	1.25	Spiraea thunbergi	
Jetbead		2½ to 3 ft.	1.25
3 to 3½ ft.	1.00	Thornless Green Barberry	
Oak-Leaved Hydrangea		15 to 18 ins.	1.25
2 to 2½ ft.	1.25		

SHADE TREES

Norway Maple	
1½ to 2-in. cal., B&B	\$12.50
2 to 2½-in. cal., B&B	16.65
2½ to 3-in. cal., B&B	19.50
Thornless Honey Locust	
2 to 2½-in. cal., B&B	15.50
2½ to 3-in. cal., B&B	19.50
Columnar Maple	
2½ to 3-in. cal., B&B	23.50
3 to 3½-in. cal., B&B	29.50

EVERGREENS

Pyramidal Arborvitae	
2 to 2½ ft.	\$2.25
2½ to 3 ft.	3.00
Blue Pfitzer Juniper	
18 to 24 ins.	2.75
2 to 2½ ft.	3.00
2½ to 3 ft.	3.25
Canadian Hemlock	
2½ to 3 ft.	3.50
3 to 3½ ft.	4.25

Come visit us and select your needs.
Ask for Forrest Averitt or Eddie Cline.

ERNST, INC.

P. O. Box 648

Muncie, Ind.

State Road 32 between Yorktown and Muncie

RED and GOLD

"JAVA RED" WEIGELA

(Weigela florida atropurpurea)

An easily grown RED-LEAVED WEIGELA with clear pink flower clusters.

Heavy outdoor rooted cuttings, \$30.00 per 100; \$250.00 per 1000.

"GOLD-LEAF" FORSYTHIA

(Forsythia intermedia aurea)

Golden-leaved Forsythia with pale yellow flowers. Found by us in a flowering shrub border.

Heavy outdoor rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

These two items are unusual, attractive and completely hardy in our locality. Order your stock early.

BEARDSLEE NURSERY

Perry, Ohio

PINE CHRISTMAS TREES

Carefully sheared; carefully selected. Big enough to serve you—small enough to give personal attention.

L. C. Gatewood
GATEWOOD CHRISTMAS TREE FARMS
Hart, Mich., and
12th and Vilas St., Leavenworth, Kan.

MEYER LEMON TREES

4 to 5 ft., in new No. 12 cans at \$1.25 each. Some of them with lemons. We do not ship.

MALBIS NURSERIES

Daphne, Ala.
12 miles east of Mobile on
U. S. Highway 90.

Christmas Tree List

Trees suitable for landscaping, good balls due to heavy soil condition. New burlap, treated or plain.

	1 to 26	26 to 50	50 to 100
Norway Spruce, B&B	10	10	10
2 to 3 ft.	\$2.50	\$2.25	\$2.00
3 to 4 ft.	2.50	2.25	2.00
4 to 5 ft.	4.50	4.25	4.00

	26	26 to 50	50 to 100
White Pine, B&B	10	10	10
2 to 3 ft.	2.50	2.25	2.00
3 to 4 ft.	3.75	3.50	3.25
4 to 5 ft.	5.00	4.50	4.25
5 to 6 ft.	6.50	6.25	6.00
6 to 7 ft.	7.50	7.25	7.00

	26	26 to 50	50 to 100
Red Pine, B&B	10	10	10
2 to 3 ft.	2.50	2.25	2.00
3 to 4 ft.	3.50	3.25	3.00
4 to 5 ft.	5.50	5.00	4.75
5 to 6 ft.	6.50	6.25	6.00
6 to 7 ft.	7.50	7.25	7.00

	26	26 to 50	50 to 100
Scotch Pine, B&B	10	10	10
2 to 3 ft.	3.00	2.75	2.50
3 to 4 ft.	4.00	3.75	3.50
4 to 5 ft.	5.50	5.00	4.75

	26	26 to 50	50 to 100
Austrian Pine, B&B	10	10	10
2 to 3 ft.	3.00	2.75	2.50
3 to 4 ft.	4.00	3.75	3.50
4 to 5 ft.	5.50	5.25	5.00
5 to 6 ft.	6.50	6.25	6.00
6 to 7 ft.	9.00	8.50	8.00

The Norway Spruce, White and Austrian Pine are growing on heavy soil, thus assuring good solid balls of soil. The Red and Scotch Pine are growing on lighter soil.

However, balls will be nailed and strung tightly. For heavy selected spruce use 10 rate on quantity.

Cut Christmas Trees

All No. 1 Grade

	50 to 100	100 to 300
Scotch Pine	100	100
5 to 7 ft.	\$2.50	\$2.35

Balsam Fir
\$5.50 per bundle, 10 to 40 bundles
5.00 per bundle, 50 to 100 bundles
4.75 per bundle, carlot, approximately 450 bundles to box car, delivered from Nova Scotia.

Single Balsam, tied separately
6 to 8 ft., \$2.00 each at nursery or \$1.75 each when combined in carlot.

Branches—With minimum of wood
Red Pine \$5.00 per 100 lbs.
Scotch Pine 6.00 per 100 lbs.
White Pine 7.00 per 100 lbs.
1000 lbs. or more, 1c less per lb.

For our complete list of Evergreens, Shade Trees and Shrubbery, write for list.

Delivery direct to you, rates reasonable.

Wade & Gatton Nurseries

Belleville, Ohio

Phone: TU 3-2191 Butler



OHIO'S LAKE COUNTY

One of the world's greatest nursery centers.

Send for free booklet and map.

Names, locations and types of plants grown by 63 members representing 4,000 acres of the very finest nursery stock. Write to:

THE LAKE COUNTY NURSERYMEN'S ASSN.
Box 49, MENTOR, OHIO



Wholesale growers of the best Ornamental Evergreens Deciduous Trees Shrubs and Roses

Write for our current trade list.

The Kallay Brothers Co.
1251 Madison Ave. PAINESVILLE, O.

ing costs include several depreciation items. This type of expense is unique in that the payment of the expense probably was not made in the period under consideration. Expenditures that will benefit several fiscal years must first be capitalized at the time acquired. This means that the item acquired must be recorded as an asset. Then, over its useful life, it may be prorated as a cost of operation.

At the present time, there are two principal methods of depreciating these fixed assets (trucks, equipment, etc.) that are used in the business. The first is called the straight-line method and has the advantage of simplicity. The amount of depreciation for the year is determined by dividing the cost, less any estimated realizable value at the end of its useful life, by its estimated life. This useful life is usually as stated by the bureau of internal revenue in its bulletin F.

The second method uses a uniform rate on the declining balance of the asset. Generally speaking, this method may be used for tax purposes on new fixed assets with a useful life of at least three years, and the rate may not exceed twice the straight-line rate. This method has the advantage of a residual asset value which approaches the curve of the related used market value, as well as a larger tax deduction than straight-line depreciation in the earlier years.

Any expenditures which result in additions, major improvements or major repairs to a fixed asset are referred to as capital expenditures and may not be deducted in full in the year of the expenditure, but must be capitalized and handled through depreciation methods prescribed in accounting and by the bureau of internal revenue. However, ordinary and necessary repairs may be treated as an expense.

Break-Even Point

Under the function of analysis and interpretation, one possibility is the computation of a break-even point. Under a simple analysis of this type, costs must be separated into two groups known as fixed costs and variable costs. Fixed costs are those that do not change materially, within limits, even though sales volume varies. These include such expenses as rent, real estate taxes and office salaries. The variable costs are assumed to vary in a direct relationship to the dollar volume of sales and thus can be represented by a per cent of revenue. Thus, these include salesmen's salaries and commissions,

HEAVY, 2-1/2-IN. POTTED LINERS

Per 100

20,000	Golden Vicary	
	Privet	\$15.00
5000	Hardy English Ivy	12.00
1000	Euonymus Sarcoxia	15.00
1000	Pyracantha lalandi	20.00
1000	Sweet Gum	15.00
1000	Densiformis Yew,	
	3-in. pots	30.00
500	Flowering Crab	
	Apple, 2 to 3 ft.,	
	Hopa and	
	Almey	40.00

SUNNYSIDE NURSERIES

Phone NOrmandy 7-2341
Troy, Ill.

PIN OAK SEEDLINGS

(Quercus palustris)

Per 100 Per 1000

6 to 12 ins.	6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00
4 to 5 ft.	30.00	250.00

Finished material quoted on request.

L. C. Gatewood

LEAVENWORTH NURSERIES

12th and Vilas Leavenworth, Kan.

1000 CORNUS FLORIDA

Clumps and single stems, nursery-grown.

4 to 5 ft.	B. R., \$3.00; B&B, \$3.75
5 to 6 ft.	B. R., \$4.00; B&B, \$5.00

F.O.B. South Bend, Ind. (Discount on large amounts.)

VAUGHAN'S NURSERY

15910 Cleveland Rd., R. R. 1

Granger, Ind.

Phone: South Bend, Central 3-3318

HARDY EVERGREEN AZALEAS

Liners, landscape and sales lot sizes.

Send for our list.

THE BOSLEY NURSERY

Mentor, Ohio



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

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EVERGREEN NURSERY CO.

Established 1864: STURGEON BAY, WIS.

AMERICA'S BEST SOURCE FOR HARDY PLANTS

Write for Trade List MENTOR, OHIO
Wayside Gardens

cost of goods sold, planting expense and delivery expense.

The point at which a company earns no profit or incurs no loss can be determined by first separating the costs of some prior sample years into fixed costs and variable costs; then dividing the variable costs by revenues to arrive at the per cent, and then by using the average fixed cost figure and the variable per cent of sales, the following formula may be solved:

Break-even Point Sales = Fixed Costs, divided by (100% minus the Variable Cost %).

This, of course, is only an estimate and should be used conservatively. If the sales to result in a specified profit are required, then the required profit may be added to the fixed costs, and the equation may be set up as follows:

Break-even Point Sales for Required Profit = Fixed Costs plus Required Profit divided by (100% minus the Variable Cost %).

Projecting Policies

Such an analysis can be used in conjunction with determination of the effect of an expansion policy or in respect to a pricing policy. In projecting the effect of a pricing policy the estimated number of units to be sold may be multiplied by price to arrive at expected revenue. The fixed costs are known from past experience, and the variable costs may be determined by applying the variable per cent to the estimated revenue. The estimated revenues less the fixed costs and estimated variable costs would show an estimated net profit for the period under consideration. Naturally, the total revenues would be the sum of estimates of a number of different products multiplied by the expected sales price.

On landscaping jobs it is possible to estimate the cost of the plants to be used and then add on a per cent of that dollar figure to cover operating costs and profit. The per cent used in this case must be based upon facts of prior successful years or the facts of other successful companies as shown by industry cost studies. This per cent is known as the gross profit ratio based on cost. In other words, it is the gross profit figure divided by the cost of goods sold figure of the facts used.

The preparation of monthly statements and comparisons of these reports to any estimates that have been made, including break-even analyses, gross profit rates and prepared budgets, can point up the weak points in pricing and various expenses as the year progresses and therefore

King-Size Outdoor-Rooted Cuttings BEATRIX FARRAND

Forsythia

ARNOLD ARBORETUM INTRODUCTION

Brand new beauty with golden florets often 2 ins. across — orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
30 to 36 ins.	5.50
3 to 3½ ft.	6.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

WE OFFER...

Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES

Bridgman, Michigan

TREE SEEDS

Conifers

We collect in the Lake States. Also supply western and European seeds.

IRON MOUNTAIN EVERGREEN CO.

Iron Mountain, Mich.

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

69 Orchard St. FREDONIA, N. Y.

Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
Currants

IVAN R. CONGDON NURSERY

North Collins, N. Y.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

Wholesale catalog on request.

PEARCE SEED COMPANY

Dept. N, MOORESTOWN, N. J.

TO ... LINE OUT ... POT OR CAN ... WRAP

Heavy Evergreen Transplants



PYRAMID ARBORVITAE

Per 100 Per 1000

3-yr., TT, 18 to 24 ins., heavy	\$0.60	\$0.55
3-yr., TT, 24 to 30 ins., heavy .....	.70	.65



GLOBE ARBORVITAE

3-yr., TT, heavy45	.40
-----------------------	-----	-----

TAXUS CUSPIDATA

5-yr., TT, heavy75	.70
-----------------------	-----	-----

TAXUS HICKSI

5-yr., TT, heavy75	.70
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Also other heavy evergreen and shrub transplants for fall and spring.

BERRYHILL NURSERY CO.
Box 696 Springfield, Ohio

VANDENBERG BULB CO.

HOLLAND and AMERICAN-GROWN BULBS

Ask for Our Price List.

NORTH RIDGEVILLE, OHIO
Phone: Elyria, EAst 74531—EAst 72762

ENGLISH IVY

Rooted cuttings	\$ 5.00	Per 1000 \$ 45.00
1-yr., 2 1/4-in. pots	15.00	135.00

GILSON GARDENS
Perry, Ohio

GOLDEN VICARY PRIVET

Lovely, solid, golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.

Potted liners	\$12.00	Per 100 \$120.00
Rooted cuttings	10.00	80.00

BEARDSLEE NURSERY Perry, O.

provide time for correction of these undesirable items. It is not necessary to wait until the end of the year to change policies and then find it is too late. For companies with volume and the accounting facilities, appropriate cost-accounting systems can and should be installed.

LANDSCAPING IN CARACAS

[Concluded from page 12]

flowers, a miniature version of the Versailles gardens in France, are carefully tended.

Any visitor from the United States who is interested in home landscaping cannot fail to be impressed by the quantity and quality of landscaping in Caracas. House architecture is more contemporary there than it is in this country, which no doubt influences the more progressive landscaping done there. Too, since gardening is a year-long hobby, people put more effort into their landscaping, which results in quality style and consistent excellent general maintenance of home plantings.

EXPENSE ACCOUNT ORDER

Treasury decision No. 6306 is affecting the reporting and substantiation of traveling and other business expenses of employees for taxable years beginning after December 31, 1957. In most cases this decision will apply to income tax returns to be made in 1959 on 1958 income.

Concerning expenses for which the employee is required to account to his employer, the decision indicates that the former does not need to report on his tax return expenses for travel, transportation, entertainment and similar purposes paid by him for the benefit of his employer whether charged directly to the employee by credit cards, advances or reimbursements. However, if reimbursements exceed expenses that are ordinary and necessary, the employee must include such excess as income in his tax report.

If the employee's ordinary and necessary business expenses exceed reimbursements, advances or other repayments, he may secure deduction of such excess from his tax return, by submitting a statement showing total expenses paid, total reimbursed by employer, nature of his occupation, number of days away from home on business and total expenses incurred, broken down in broad categories as transportation, meals, lodging and others.

With regard to expenses for which the employee is not required to account to his employer, the decision

NEW AND COMING SURE-FIRE ROSES

BINGO

(Plant Pat. No. 1392)

A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9; is becoming more popular and the demand for spring, 1959, will be great. Order yours now! Suggested retail, \$2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493), A. R. S. 1958, 7.6

A many-petaled pink rose with outstanding lustrous foliage. This vigorous bush is one of the best pink roses. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.60	\$1.40	\$1.25	\$1.20
Each 250 and up, \$1.10			

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.

Monroe, Mich.

The Greening Nursery Co.

Monroe, Mich.

Peterson & Dering

Scappoose, Ore.

Shenandoah Nursery

Shenandoah, Ia.

Gerard Klyn Co.

Mentor, O.

Elmer Roses

6708 N. San Gabriel
San Gabriel, Calif.



TAXUS

is our specialty.
Bed stock—Liners
Finished—Specimen.

Send for List

EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.

COCOS AUSTRALIS PALM SEED

600 lbs. of good, clean seed, \$1.50 per lb. F.O.B. our nursery. Not less than 5 lbs.

MALBIS NURSERIES

Daphne, Ala.
12 miles east of Mobile on
U. S. Highway 90.

SEX-GUARANTEED HOLLY LINERS

Our famous 20-below-zero named varieties.

Send for our list.

THE BOSLEY NURSERY
Mentor, Ohio

RED BARBERRY SEED

(Berberis thunbergii atropurpurea)
U. S. D. A. Certified
Write for quotations.

KINGWOOD NURSERIES

Mentor, Ohio

ARMINTROUT'S EVERGREEN NURSERY

ALLEGAN, MICH.

Seedlings—Transplants

Finished Stock

Send for price list.

CUMBERLAND VALLEY NURSERIES, Inc.

McMinnville, Tenn.

Phone: 2616

Fall, 1958 — Spring, 1959

Let us supply your needs in the following top-quality stock. We have fair quantities in the items listed and will be happy to hear from you soon.

HIGHEST-QUALITY SHADE AND ORNAMENTAL TREES

Grown from root-pruned, transplanted liners.

ACER DASYCARPUM (Silver Maple)	Each
6 to 8 ft., T., well-br., tops.....	\$0.70
8 to 10 ft., T., well-br., tops, 1 1/4 to 1 1/2-in. cal....	1.00
10 to 12 ft., T., well-br., tops, 1 1/2 to 2-in. cal.	1.50
12 to 14 ft., T., well-br., tops, 2-in. and up	1.75
CERCIS CANADENSIS (American Redbud)	
5 to 6 ft., T., well-br. ....	.60
6 to 8 ft., T., well-br. ....	.90
8 to 10 ft., T., well-br.	1.25
LIRIODENDRON TULIPIFERA (Tulip Poplar)	
5 to 6 ft., T., well-br. ....	.60
6 to 8 ft., T., well-br. ....	.90
8 to 10 ft., T., well-br.	1.25
10 to 12 ft., T., well-br.	1.75
(\$1.00 extra per tree for B&B)	
ALBIZZIA JULIBRISSIN (Mimosa Tree)	
5 to 6 ft., T., well-br.	1.00
6 to 8 ft., T., well-br.	1.25
8 to 10 ft., T., well-br.	1.50
(2-yr., staked, extra-nice heads)	
PLATANUS OCCIDENTALIS (American Sycamore)	
6 to 8 ft., T., well-br. ....	.70
8 to 10 ft., T., well-br., 1 1/4 to 1 1/2-in. cal.	1.00
10 to 12 ft., T., well-br., 1 1/2 to 1 3/4-in. cal.	1.25
10 to 12 ft., T., well-br., 1 3/4 to 2 -in. cal.	1.50
ULMUS PUMILA (Chinese Elm)	
5 to 6 ft., T., well-br. ....	.60
6 to 8 ft., T., well-br. ....	.80
8 to 10 ft., T., well-br.	1.25
10 to 12 ft., T., well-br.	1.50

MALUS (Flowering Crab Apple)

Each

Varieties:

Almey, Dolgo, Eleyi, Floribunda, Hopa,
Red Silver, Red-vein

18 to 24 ins., 1-yr., graft whips	\$0.20
2 to 3 ft., 1-yr., graft whips .....	.25
3 to 4 ft., 1-yr., graft whips .....	.35
4 to 5 ft., 1-yr., graft whips .....	.45
3 to 4 ft., 2-yr., br., grafts .....	.60
4 to 5 ft., 2-yr., br., grafts .....	.75
5 to 6 ft., 2-yr., br., grafts	1.00

(Eleyi and Hopa only in 2-yr. crab apples)

PRUNUS PERSICA (Flowering Peach)

Double Red
Double White
Redleaf (Combination Fruiting and Flowering
Peach)

12 to 18 ins., June Buds .....	.20
18 to 24 ins., June Buds .....	.25
2 to 3 ft., June Buds .....	.35
3 to 4 ft., June Buds .....	.45

PRUNUS THUNDERCLOUD (Purple-Leaved Plum)

12 to 18 ins., June Buds .....	.20
18 to 24 ins., June Buds .....	.25
2 to 3 ft., June Buds .....	.35
3 to 4 ft., June Buds .....	.45

FRUIT TREES

PEACH, June Buds

Complete assortment of best commercial varieties.

APPLE, 2-yr.	Each
7/16 to 9/16-in. cal., 2-yr., br., grafts	\$0.35
9/16 to 11/16-in. cal., 2-yr., br., grafts .....	.45
11/16 to 1-in. cal., 2-yr., br. grafts .....	.55
1-in. cal. and up, 2-yr., br., grafts .....	.65
Early Harvest	Red Rome Beauty
Yellow Delicious	Virginia Red Winesap
Dark Red Delicious	Dark Red Stayman

APPLE, 1-yr.

Each

18 to 24 ins., 1-yr., graft whips	\$0.12 1/2
2 to 3 ft., 1-yr., graft whips .....	.17 1/2
3 to 4 ft., 1-yr., graft whips .....	.27 1/2
4 to 5 ft., 1-yr., graft whips .....	.32 1/2
Anoka	Yellow Delicious
Lodi	Dark Red Delicious
Yellow Transparent	Red Rome Beauty
Red June	Dark Red Stayman
Dark Red Jonathan	Virginia Red Winesap
Grimes Golden	

TERMS: Our terms are net, 30 days from invoice date, to firms with established credit or we will allow 2% cash discount and free packing for cash with order.

declares the former must submit as a part of his tax return a statement showing (1) total of all amounts received as advances or reimbursements, indicating amounts charged directly or indirectly to the employer through credit cards or otherwise, and (2) nature of his occupation, number of days away from home on business and total amount of ordinary and necessary business expenses incurred or paid, broken down in broad categories as mentioned previously.

Obviously it will be to the advantage of taxpayers who may be called upon to substantiate expense ac-

count information to maintain as adequate and detailed records of travel, transportation, entertainment and other business expenses as practical, since the burden of proof is on the taxpayer to prove that his expenses were actually paid or incurred

and that they were ordinary and necessary business expenses.

A copy of the complete Treasury decision may be had from one's local internal revenue office or directly from the Treasury Department, Washington 25, D. C.

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

PLANT NOTES HERE AND THERE

By C. W. Wood

Double-Flowered Tunica

Despite the fact that the double-flowered tunica, *Tunica saxifraga rosea florepleno*, has long been known to gardeners and is considered among the elite plants by many experts, it remains scarce in both gardens and nurseries. All that will be better understood after one has grown the plant for some time. Before one begins to grow it, he should make up his mind that he is not going to have the easy time that he had with the indestructible type. If one has ever grown the latter, he will know that it can make a nuisance of itself in one's cherished associations by its indiscriminate self-sowing and stout constitution. One need never worry about meeting that trouble with the double one, however; in fact, one will be fortunate to keep it going if he does not take its special needs into account.

First of all, perfect drainage is essential, for the least bit of dampness around the crown, especially in winter and spring, will spell disaster. Therefore, one should start with well-drained soil and see that the plants are not overpowered by vigorous neighbors. These two factors are, I think, at the bottom of most complaints about the plants' misbehavior.

Also, one will find cuttings offer the best means of increase of the plant that produces no seeds. I have read that some propagators follow division of the clumps for their increase; all I can say is that they are better manipulators than I ever was, because my efforts to re-establish plants after dividing them was always disastrous to the plants. On the other hand, cuttings of fresh growths root with a fair degree of certainty under a bell glass or in a close frame.

If one has never seen the plant, he may ask if it is worth all that effort. To this question I, for one, say yes! As I look at these things, there is no denying the fact that a well-grown specimen, with its branched, wiry stems, bearing masses of tiny, double, pink flowers, like baby's-breath, is an entrancing picture.

Primula Nutans

I recently received a picture of a large planting of *Primula nutans* in

a Mississippi garden that made me wish that I had a naturally moist place wherein to grow it. And it made me wonder why more gardeners with growing conditions to suit the plant's needs do not have it. I am sure that I do not know all about its culture, but I offer the following as a start in that direction.

In the books that I have consulted, the plant is considered a true perennial, but for some reason unknown to me it behaved strictly as a biennial. One thing I do know is that it is not hardy in northern Michigan. These two factors lead me to think that the plant is somewhat restricted in its usefulness. However, it should become popular with gardeners in sections where it can be grown safely.

The nodding primrose, *Primula nutans*, was introduced into gardens by the plant explorer, Forrest, within my gardening time, and has suffered from a bad reputation. Whether that is deserved or not, I cannot say, but I doubt that the

plant is as bad as some would have us believe. I feel sure, though, that its pretty, large, nodding, lavender-blue flowers, like inverted cups, at the top of 9-inch, mealy scapes would be worth the effort to secure the plant in the more temperate regions.

It appears from the literature, correspondence and my own experience, that to achieve success in the culture of the present plant, one must have a perfectly drained soil, preferably a peaty one; a good supply of moisture during the growing season; considerable shade (half-shade, or perhaps more, in the middle west), and shallow planting. The need for the last-named requirement was plainly shown in my trials when I grew the plants in pots, and it has since been confirmed by friends who have grown it in the open. A Maryland correspondent who was quite successful with the plant outdoors remarked that putting the crown at the surface of the soil, as one does

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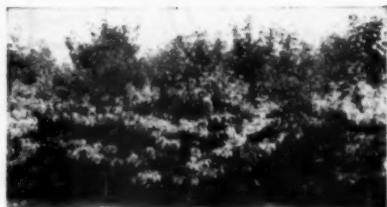
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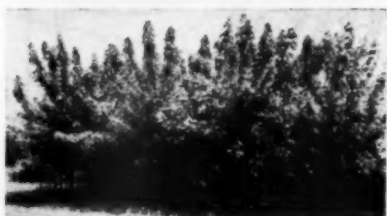
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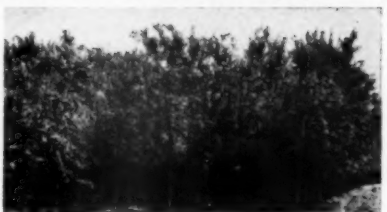
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with most herbaceous plants, means sure death from rotting in winter. If one lives south of the Ohio river, perhaps south of the Great lakes, it might pay him to give the plant a trial.

Steironema

A Pennsylvania reader writes, in part, as follows: "I have a customer who knew two different 'steironemas,' as he calls them, in his boyhood home in upstate New York and would like to have them in his present garden. He understands that they require moist soil and he has it. What can you tell me about them? Where can they be obtained?"

They can no doubt be found near one's own back yard, in low, moist places, preferably in wet spots along the edge of thickets.

These plants are popularly known as loosestrifes, and at least three kinds are found in the eastern states. Of these the marsh loosestrife, *Steironema quadriflorum*, found on the margins of streams and lakes, would, because of its excessive moisture needs, be of little value to the ordinary gardener. But two others, *S. ciliatum* and *S. lanceolatum*, although needing moisture, can be accommodated in most garden spots that the hose can reach. They are so similar that one would scarcely

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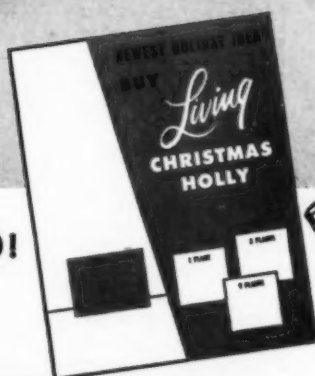
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By John J. Pinney. 64 p. (1958). \$1.00.
American Nurseryman Chicago 4, Ill.

need both kinds, unless the difference in size would be a determining factor. The former, however, is ordinarily twice as large as the latter in all its parts. The fringed loosestrife (cilium) grows to four feet in height (two to three feet more generally), with broad lanceolate leaves, fringed with hair, and yellow flowers, to an inch across, from June to August. The lance-leaved loosestrife, *S. lanceolatum*, grows up to two feet tall, sometimes slightly more. I have seen it repeatedly in the wild when it was no more than six inches tall, and then it was a charming little rock garden ornament. I believe, however, that it does not remain constant at that height, even when grown from cuttings of the dwarf plant. It has narrower leaves, generally smooth at the margins, and the yellow flowers are smaller. It has been my experience that the plants are generally better if in some shade and in spots where their thin, fragile stems are protected from strong winds. The plants should be grown from seeds or cuttings.

Some Blue Fall Flowers

A Missouri neighborhood grower takes care of a garden whose owners spend every July and August in their Minnesota summer home. What is wanted is to have plenty of flowers, with an emphasis on blue flowers, which are the lady's favorites, from September 1 until the garden is put to sleep by frost. Suggestions were asked.

Several good blue flowers can supply the need for blue color in the fall garden. Of these, monkshoods are of great value in gardens where the soil suits them. Good specimens and long life are quite impossible in the light sandy soil of my present garden; in the heavy clay of a former Ohio garden, they were all that one could desire. I remember with much pleasure, too, a planting of *Aconitum wilsoni* and *Aster Harrington's Pink* which I saw in a nursery some time ago. It not only gave me much pleasure at the time, but has suggested several associations of much potential beauty. Thus, I should expect the paler blue flowers of *Aconitum fischeri* and any of the pink asters, or either of the monkshoods mentioned and *vernonia*, to make pleasing pictures in the autumn garden. If one operates on a clay soil, by all means he should try these aconitums.

Any of the blue-flowered Carpathian harebells, *Campanula carpatia*, should serve well. To get good flower production from them, keep seed pods picked off during the summer, feed them in August and

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5 to 6 ft., B&B	7.00
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8 to 10 ft., 1 1/4 to 1 1/2 in. cal.	4.75	4.50
10 to 12 ft., 1 1/2 to 2 in. cal.	6.50	6.00
2 to 2 1/2 in. cal.	9.50	9.00
Maple, Sugar		
6 to 8 ft.	3.25	3.00
8 to 10 ft., 1 to 1 1/4 in. cal.	4.25	4.00
8 to 10 ft., 1 1/4 to 1 1/2 in. cal.	5.25	5.00
10 to 12 ft., 1 1/2 to 2 in. cal.	7.00
Oak, Pin		
6 to 8 ft.	3.50	3.25
8 to 10 ft., 1 1/4 to 1 1/2 in. cal.	5.50	5.00
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	Per 100	Per 1000
<i>Viburnum carlesi</i> (Fragrant Snowball),		
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do not allow them to suffer for moisture. Another of the campanulas, the chimney bellflower, *C. pyramidalis*, should help to make the first 10 days of September a merrier period. Although it is spoken of as a perennial, it is best to treat it as a biennial, for only then can spectacular results be expected. So handled and given a rich, trench soil, with moisture when needed, the plants should give spires to five or six feet in height, instead of the usual two feet, and flowers from July into September.

If lavender and purple hues will do, search them out in the fall asters, and by stretching the imagination, one might even have some blues. The following can be tried: *Aquila*, *Eventide*, *Royal Velvet* and *Violetta*.

Salvia pitcheri, in addition to being one of the grand flowers of the entire year, adds a touch to the fall landscape that is not obtainable from any other source that I know. Its beautiful sky-blue flowers, large for a sage, give it distinction in any planting, and its height of three or four feet makes it stand out in the fall scene. Its ease of culture in any sunny, well-drained spot gives it value to the casual gardener, and an almost ironclad hardiness, at least in material from the northern part

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of its range (Minnesota), fits it for gardens in most of the country. It is one of my favorite flowers of any season. It may also be found listed as *S. azurea grandiflora*.

The blue flowers of the autumn border would not be complete without the lovely little leadwort, *Cerastigma plumbaginoides* (*Plumbago larpentiae*). Put it in front of one of the dwarf asters, like *Snow Sprite*, and it will make the garden a more pleasant spot to spend the brilliant autumn days. The books say to give it the hottest, driest spots to make it do well and be permanent. With this I heartily agree so far as growth and flowering are concerned; it takes more than that to make it permanent, however, in really cold climates. Here, I found, despite all that has been said about its hardiness, that mulching was necessary after the foliage died back after frost. In our inquirer's climate, there should be no question about its hardiness. It is readily increased by divisions or cuttings.

Snow Poppy

Answering a North Carolina correspondent, I would state that, although the snow poppy, *Eomecon chionantha*, seems to be of undetermined hardiness in this country, it should be safe in any part of his state. It was not hardy when I tested it here about 20 years ago, but I am told that it winters well around New York city and along the coast of New Jersey. My reactions to the plant are rather mixed, no doubt because of its impermanence in our climate; so I shall give both sides of the problem from more experienced eyes. The "Cyclopedia of Horticulture" says that "this plant is destined to no great popularity, but interesting to lovers of hardy borders." William Robinson, the great English gardener and an authority on perennials, considered it "a delightful plant in moist situations in



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24 to 30 ins.	1.75	1.65	1.50
3 to 4 ft.	4.00	3.85	3.50
4 to 5 ft.	5.25	4.95	4.50
5 to 6 ft.	7.00	6.60	6.00
6 to 7 ft.	8.80	8.30	8.00

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free soil and fully exposed to the sun."

In any case, you can expect a plant between stylophorum and bloodroot in appearance, with bold, heart-shaped leaves, coming from a running rootstock, and pearly-white poppies, to two inches, on scapes to a foot or more in height. It will bloom abundantly in spring and more sparingly until fall, it is said, though it did not do that well in our light, dry soil. Grow it from seeds.

Aquilegia Longissima

A Missouri correspondent writes, in part, as follows: "I am having trouble with *Aquilegia longissima* and wonder if you can help. In the first place, seeds are hard to germinate; then seedlings are hard to get established, and, finally, the plants are not long-lived. I sow the seeds in a frame in early spring, transplant them to nursery rows when they are large enough to handle and mulch with straw during the first winter. You probably know that much of the commercial seed stocks are contaminated with other columbines; so it is now quite hard to get true *A. longissima*, but that is not the plant's fault. Or is it?"

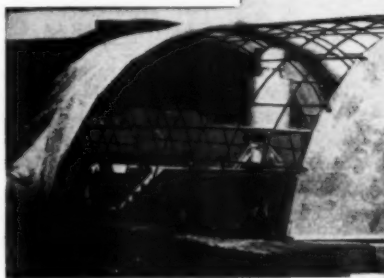
Because I have not had extensive experience with this southwestern columbine, I am not sure that I can aid the correspondent much, but I can tell him some personal conclusions and the result of some correspondence. Travelers who have observed the plant in Arizona tell me it is found in rocky canyons in Arizona, Texas and Mexico, where it can send its roots far down through the rocky soil to reach moisture. It lived longest in my trials when grown in gravelly soil in light shade or full sun when moisture could be supplied to the roots. And that corresponds with its natural habits, I take it. Columbine seeds are tardy of germination unless sown in autumn to freeze; if one has to sow in spring, he should try filling the bottom third of the seed pans with pure peat, to retain moisture, and place the seeding mixture on top of that. Gardeners tell me that one requisite of success with this plant is dry air; so a humid climate probably would be hard on seedlings.

Schivereckia

Schivereckia is a small genus of crucifers, close to *alysum* and *draba*, differing in a few technical characters which are of little interest to the gardeners. Apparently, the plants are of little interest to gardeners, either, for they are seldom seen. Actually,

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Mo., Yr.—date rooted 8—seedling
BG—bed-grown RC—rooted cutting
Berberis Crimson Pigmy—Light, BG, liners, 18 mo. old, branched to fairly bushy, 5 to 7 ins., 18c; heavy, BG, liners, 6 to 9 ins., bushy, 25c; field-grown, 3-yr., heavy, 8 to 12 ins., 50c.

Berberis julianae—The hardest evergreen barberry—cuttings rooted July 57 and kept cutback, very heavy, 7 to 9 ins., 12c; our usual big rooted cuttings, Aug. 58, 9c.

Berberis julianae nana—Compact growth, darker green leaf, often called "BPT"—RC, Aug. 58, 10c.

Berberis mentorensis—Cuttings rooted July 57 and kept cut back, big enough to go directly to the field, 8 to 10 ins., 10c; our usual big RC, Aug. 58, 7c.

Buxus sempervirens (Boxwood)—An excellent, bushy strain—cuttings rooted Sept. 57 and kept cut back, 4 to 6 ins., beginning to bush out, 10c.

Chamaejasme (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.

Nivale—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., 18c; 12 to 18 ins., 24c.

Texas Scarlet—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., 20c.

Cherry Laurel—See *Prunus*.

Cydonia—See *Chamaejasme*.

Elaeagnus ebbingei—New, from Dutch plants. The best we have seen. More upright and attractive than fruitland—RC, June 58, 20c.

Eucalyptus alatus compactus—RC, June 58, 8c.

MALE GINKGO

Ginkgo biloba—From cuttings—all from one magnificent male tree—BG, 6 to 12 ins., 30c; 12 to 24 ins., 75c; under 6 ins., 35c.

Ilex cornuta burfordii—RC, heavy, 6 to 12 leaves, 8c. Not ready until spring.

Ilex crenata convexa—Cuttings rooted July 57 and kept cut back, beginning to branch well, heavy, RC, 9c; our usual grade, RC, Aug. 58, 7c. Not ready until spring.

Ilex crenata helix—Large RC, Aug. 58, 7c.

Ilex crenata rotundifolia—Cuttings rooted Aug. 57, kept cut back, branched, exceptionally heavy, RC, 9c; our usual large RC, Aug. 58, 7c.

Ilex opaca (American Holly)—Northern types, no southern hybrids. Guaranteed female and guaranteed male from cuttings—BG, liners, 4 to 6 ins., 17c; 6 to 10 ins., 25c; 10 to 15 ins., 35c; for canning in gallon cans, mostly single stem, some lightly branched, BG, liners, 15 to 30 ins., 50c. *Ilex opaca* shipped only on March 1, 1959 (because that is the very best time to move American Holly).

Magnolia grandiflora—Seedlings, stocky, from well-spaced outdoor beds, 4 to 6 ins. and up, 8c.

Prunus caroliniana (Southern Cherry Laurel)—Seedlings, sheared to keep them bushy, 8 to 12 ins., 8c.

Foremost in intermittent mist propagation.
Originator of the Electronic Leaf Control.



Prunus laurocerasus schipkaensis (Cherry Laurel)—Cuttings rooted July 57, kept cutback, light bed-grown liners, big enough for field, 8 to 10 ins., 20c; RC, very large and heavy, Aug. 58, 10c.

Prunus laurocerasus zabeliana (Cherry Laurel)—Spreading, usually considered the hardest—RC, Aug. 58, 12c.

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest and seems to be even harder than *zabeliana*. Large leaves, very dark green—RC, Aug. 58, 20c.

Prunus laurocerasus officinalis (English Laurel)—Not hardy north—RC, Aug. 58, 10c.

Thuja orientalis aurea nana (Berckmans Golden Arborvitae)—RC, Feb. 58, growing in soil ever since. About right for a 2½ or 3-in. pot, 10c; BG, transplants, 8 to 12 ins., 25c.

Viburnum—All are on their own roots from softwood cuttings.

Viburnum carlesii—RC, June 58, 15c; BG, liners, single stem to lightly branched, 18 to 24 ins., 30c.

Viburnum chenaunti—More shapely and attractive than *burkwoodii*—RC, June 58, 15c.

Viburnum juddi—Better than *carlesii*. A more compact plant with more attractive leaves. Not subject to leaf spot. Flowers really pink—RC, June 58, 15c.

Viburnum macrocephalum sterile (Chinese Snowball)—Dazzling white snowballs often 8 to 9 ins. in diameter. In polyethylene plant bands, same amount of soil as a 3-in. pot. On own roots since it is not fully compatible if grafted. 65c each.

Viburnum rhytidophyloides—Hybrid between *V. rhytidophyllum* and *V. lantana*—very similar to *rhytidophyllum* but is harder RC, July 58, 15c.

Viburnum rhytidophyllum (Leather-leaved Viburnum)—RC, July 58, 12c.

Viburnum tomentosum mariesi—Sorry, sold out for this year.

Viburnum tomentosum plicatum grandiflora (Japanese Snowball)—Has larger snowballs than the regular *plicatum*—RC, July 58, 20c.

We are conducting an interesting experiment with about 50,000 plants in 2x2x4-in. polyethylene plant bands. Using University of California "Mix C", half sand—half peat and liquid fertilizer through a Smith Measure-Mix proportioner. In a new type of semicircular shade house—greenhouse. Why not stop by to see it?

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two kinds, *Schivereckia bornmuelleri* and *S. podolica* would be good garden plants in sections where they are hardy. Coming from southeastern Europe and adjacent parts of Asia they should be hardy in all except the coldest parts.

The best known kind, *S. podolica*, makes lovely, little, silvered rosettes, from which spring leafy stems to four to five inches, bearing clusters of pure white crossflowers for a long time in spring. The other, *S. bornmuelleri*, is only half as tall when it is bearing its white flowers over even more silvered rosettes. They should be given perfect drainage, some moisture during long dry periods and light protection if their hardiness is questionable in a given section. They should sell on sight in the neighborhood nursery that numbers ardent plant lovers or rock gardeners among its clients.

IDARED, NEW APPLE

Idared, a promising new apple variety for planting in commercial orchards in Michigan, is described in the August, 1958, Quarterly Bulletin of the Michigan State University agricultural experiment station. Idared originated at the Idaho agricultural experiment station, resulting from a cross of Wagner and Jonathon. It was released for testing to other experiment stations in 1952.

Fruit of the new variety is said to range from two and one-half to three inches in size and to be an attractive shade of medium bright red. The color is solid, and the apples are uniform in shape, with a smooth, light, waxy finish. The flesh is white, with some traces of pink. It has good dessert quality and is rated good to very good for home culinary purposes.

The harvesting season corresponds to that for Northern Spy. Keeping well in common storage, the fruit can be held in good condition in cold storage until June and July. The blooming period of Idared and Jonathon are similar. Idared trees appear equal to those of Jonathon in cold hardiness. The growth is moderate and the size intermediate. The branches grow more upright than those of Jonathon, but are thicker and sturdier. The crop of apples is well distributed about the tree.

FEATURED in the October issue of Flower Grower is a story about the Emerald euonymus developed by Corliss Bros., Inc., Gloucester, Mass. Emerald Leader was the first evergreen euonymus to be awarded a plant patent.

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NEW BULLETINS

FORESTRY REPORT

Influence of artificial light on growth of seedling trees, mass sterilization of male gypsy moths by gamma radiation, the effect of the 1957 drought on forest trees—these are three of many research topics reported in the 82-page annual report of the United States forest service's northeastern forest experiment station.

The station, with headquarters at Upper Darby, Pa., takes in a 12-state region from Maine to West Virginia. In all, the station has 10 field centers plus 14 field laboratories—mostly experimental forests.

The illustrated annual report also includes a list of the 96 publications written by staff members and co-operators with the station. Copies of the annual report are available from the northeastern forest experiment station, 102 Motors avenue, Upper Darby, Pa.

AZALEA, CAMELLIA GROWTH

The nutrient requirements of two increasingly popular ornamentals are discussed in Azalea Fertilization and Fertilization of Camellias, two recent circulars published by the agricultural experiment station of the Alabama Polytechnic Institute, Auburn. In Azalea Fertilization, Henry P. Orr, Tokuji Furuta and Charles W. Bell describe tests in which various nutrient deficiency symptoms were produced in Kurume azaleas potted in sand. These symptoms are described in the circular and are shown in a full-color illustration. Results of tests to determine the best fertilizers for azaleas grown in different soil mixes are also given in the publication in tabular form.

Fertilization of Camellias, by Mr. Orr and Mr. Furuta, reports the results of a survey of established camellia plants in Alabama, showing the influence of soil characteristics and planting site on camellia growth. Symptoms indicating deficiencies in specific nutritive elements are described. The responses of camellia plants to minor elements, to varying fertilizer rates and grades and to different soil mixes are also discussed and detailed in tables accompanying the text.

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Legal Decisions

PLANT DISEASE CONTROL

Many high court decisions have established a rule that private property may be destroyed sometimes in the public interest without compensation to the owner. But, as noted in a decision by the Florida Supreme Court not long ago, much depends upon the nature and condition of the property destroyed and the actual need for its destruction.

In the Florida case (Corneal vs. State Plant Board, 95 Southern Reporter 2d 1) the board had declared the burrowing nematode and each citrus and avocado tree infested by it to be public nuisances and had adopted a rule that all such trees in infested zones, plus the first four trees past the last one visibly infested, be pulled. It had also required that the land be left idle for two years for treatment. The court decided that, because no provision was made for compensating landowners for the loss of the uninfested trees, the rule was unconstitutional, even if authorized by the legislature.

Two of the principal passages in the court's opinion read:

"The regulation in question involves the destruction of healthy trees, as well as trees affected with spreading decline. Even the affected trees cannot be said to be completely worthless, since they continue to bear fruit and do not die. Many witnesses testified, however, that a citrus tree with spreading decline is not commercially profitable; and there can be no doubt that the disease presents a serious threat to the citrus industry of this state. This being so, we think the plant board would have been justified in destroying the diseased trees without compensation to the owner, if this had been found to be a practicable method of containment of the disease. It was not so found; so we are required to decide whether the destruction of healthy trees as well as diseased trees (and many more of the former than the latter, in this particular case), without compensation to the owner, is a valid exercise of the board's powers.

"We cannot overlook the fact that the compulsory program requires the destruction of one owner's healthy trees for the purpose of protecting the healthy trees of his neighbor. Even if it is assumed that all of the healthy trees so destroyed would after an indeterminate num-

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ber of years be infested with burrowing nematodes and thus be less productive than before, the fact remains that some of these healthy trees will be fully productive for at least a year or two and others for several years, depending on their proximity to a tree infested with burrowing nematodes."

What Other Courts Have Said

One of the leading decisions on this general subject was rendered by the Virginia Supreme Court of Appeals in 1920. (Bowman vs. Virginia State Entomologist, 105 South Eastern Reporter 141.) The court decided that the Virginia legislature could validly declare to be nuisances and subject to destruction trees that were hosts to the cedar rust pest, and that it was not unconstitutional to make enforcement in particular sections of the state optional with the residents of each section.

The factual bases of the decision were that cedar rust imperiled the state's important apple-growing industry because of migration of the pest and that cedar trees were industrially much less important than apple trees.

Recognizing the validity of reasonable regulations designed to avoid spread of tree and plant infection, the South Dakota Supreme Court has declared that it is a matter of common knowledge that trees and plants are subject to destructive communicable diseases.

The court said that even the ancient Greeks and Romans were aware of this fact. The court added that "though formerly unreliable theories on the subject may have received more or less general recognition, the recent exhaustive researches of distinguished specialists have placed the pathology of plants on a foundation scarcely less scientific and satisfactory than that occupied by the pathology of animals. * * *

"This being so, the power to prescribe regulations, calculated to prevent the spread of diseases among plants cannot be less ample than the power to prescribe regulations calculated to prevent spread of diseases among domestic animals." (Ex parte Hawley, 115 N. W. 93.)

A. S.

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SUPERIOR CHAPTER

The newly elected officers of the Superior chapter, California Association of Nurserymen, presided at the dinner meeting held September 24 at the Tuesday Clubhouse, Sacramento. The new officers for 1959 are as follows: Tak R. Kato, Kato's Nursery, Sacramento, president; Richard Oki, Oki Nursery, Perkins, vice-president, and A. Gus Kolb, Capital Nursery, Sacramento, secretary-treasurer. Directors are Walter Tecklenberg, Teck's Nursery, Lodi, and Ray Wilkinson, Somerset Nursery; Frank Nonaka, Lemon Hill Nursery; Fred P. Wells, the Garden Shop, and Jay C. Garrett, Garrett's Nursery, all of Sacramento.

The meeting was called to order by President Kato, and guests were introduced, including Executive Secretary Elmer Merz and his wife and the assistant executive secretary, Jack A. Wick, and Mrs. Wick, of the C. A. N. Eugene Armstrong, Capital Nursery, Sacramento, the newly elected controller of the state association, gave a detailed report of the recent convention held at Rickey's Inn, at Palo Alto.

Richard Oki, program chairman, then introduced Dr. J. H. Madison, Jr., University of California, Davis, who narrated a program on various stone fruit diseases presented by members of the university faculty.

A. Gus Kolb, Sec'y.

TRI-COUNTY CHAPTER

A meeting of the Tri-County chapter of the California Association of Nurserymen was held at the Pierpont Inn, Ventura, September 26, with 24 persons present. The treasurer's report for the year showed a balance of \$243.63. Bert Kallman, Kallman's Garden Nursery, Santa Barbara, gave a report on the recent state convention, and membership applications were received from the Green Thumb Nursery and the Stover Seed Co.

Nominations for new officers were then read. It was moved and seconded that the secretary cast a unanimous ballot electing Mrs. Ruth Curtiss, president; Tom Edwards, Roy F. Wilcox & Co., Santa Barbara, vice-president, and Walter

Barrows, Griffin & Morgan, Santa Barbara, secretary.

It was resolved that a committee be appointed to study the bylaws of the Superior chapter and adapt them for use by the Tri-County chapter. Walter Barrows was appointed to head up a blood bank committee and was also instructed, along with Mr. Stribling, to send a memorandum to the local authorities pointing out that the ordinance covering closing-out sales is antiquated and needs much improvement.

Most of the chapter nurseries have donated plants for the Los Prietos boys' camp, and Mr. Barrows was

also appointed to place these plants to achieve the best possible landscape effect. As the final item of new business, it was moved and seconded that the chapter buy two trophies to be given to the Ventura County Fair Association as awards in a new exhibition class in horticulture being sponsored by the Tri-County chapter.

Mr. and Mrs. C. Mavro Warren, Ventura, then showed some excellent 3-dimensional color slides taken on their recent trip to the Philippines, China and Japan. The interesting photographs showed many of the plants grown there and the cultural methods used.

Walter S. Barrows, Sec'y.

SAN DIEGO CHAPTER

At the September 11 meeting of the board of directors of the San Diego chapter of the California Association of Nurserymen, at the home of President Charles E. Dibb, San

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Diego, it was agreed to omit a general meeting in September and plan for a large installation dinner meeting October 23. Craig Smith was appointed to make the arrangements at the Kona Kai, on Shelter Island, Point Loma.

The C & R Garden Shop, 2221 Linda Vista road, San Diego, was voted a member after the customary get-acquainted period. The executive treasurer, Craig Smith, reported that a satisfactory balance remained after a part of the money had been invested in a building and loan fund.

Ada L. Perry, Sec'y.

TREE SYMPOSIUM

Among those attending the annual tree symposium held October 2 at the Saratoga Horticultural Foundation, Saratoga, Calif., were tree specialists, city planners, landscape architects and contractors and educators.

The panel this year consisted of George Vernon Russell, nationally

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noted landscape architect who is now living at Saratoga; Willis Stribling, Stribling Nurseries, Merced, a former president of the California Association of Nurserymen; William Sider, Pacific Gas & Electric Co.; Prof. Mai Arbogast, department of landscape architecture, University of California, Berkeley, and Walter Doty, Sunset magazine, Menlo Park. The moderator was Michael H. Antonacci, director of planning, San Jose. Ray Hartman, who established the foundation, was unable to attend the symposium because of the serious illness of Mrs. Hartman.

Street Development

Mr. Russell reminded the group that the city street in the past few hundred years has changed from a spot where all debris is dumped to a utilitarian facility, of which beauty is an integral part. He said that much study should be given to the choice of trees to be used in a street planting and that the kind of street, the type of houses, the location (city or suburb) and many other factors must be taken into consideration. He said that the art of street design and tree planting is fast being lost, as towns run into cities and cities run into the country. He hoped that future planning will consider this and bring

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EVERGREEN NURSERY**

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Everett, Wash.

some kind of order out of the present confusion.

Discusses Varieties

Mr. Stribling presented a colored poster that his nursery furnishes to customers interested in trees. He discussed most of the trees pictured, as well as some newer kinds, noting the limitations and the values of each. We warned against the use of too many trees of the same kind for any community, citing the build-up in the population of pests which follows any heavy planting.

He told of some of the trends in kinds of trees being used in city street planting and gave such information on these trees as is now available. He mentioned especially the flowering trees as a group that is currently becoming popular, and he indicated that in some areas there is a trend toward evergreen types.

Professor Arbogast explained the goals which she as an educator tries to instill in her students and outlined some of the problems that students and recent graduates encounter in regard to street tree plantings. Mr. Sider told how the Pacific Gas & Electric Co. learned about desirable kinds of street trees. He explained that, though the information used by the company has been in print for a long time, planners and planters seldom look for it on the library shelves, and thus it loses much of its practical value. He said that publicizing this information was of utmost importance.

In his presentation, Walter Doty noted that climatic factors, the width and length of streets and the size of homes and yards vary considerably in different parts of California. Because of this, he believes that anyone compiling a list of recommended trees for street planting, or for any purpose, should first determine the specific conditions under which the tree (or shrub) will be used and then undertake considerable research before making his recommendations.

Oriental Plantings

Keith Davey, president of the Davey Tree Expert Co. of California and president of the Western chapter of the National Shade Tree Conference, related some of the impressions he received while he and Mrs. Davey were on an extended trip to the Orient. He made some revealing comments on the uses of street trees in Japan and on the Asiatic mainland compared to practices in similar situations in this country.

Dr. Robert Raabe, plant pathologist, University of California, Berkeley, was asked to report on



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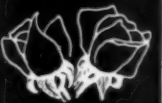
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(Oregon-Washington Holly-Grape)

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1-yr., S., field-grown, row-run,
\$40.00 per 1000, \$5.00 per 100

SEEDLINGS are muddled, then packed in moist shingle tow and wrapped 100 to the bundle in waterproof paper. They are then packed 1000 seedlings to the crate, weighing approximately 55 lbs.

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and advance orders solicited.

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the plant diseases which were most commonly reported in the state this year. He named three which had come to the attention of the members of his department and gave information on their control.

The meeting, conducted by Maunsell Van Rensselaer, director of the foundation, included an afternoon tour of the foundation grounds. After the luncheon hour, the visitors were divided into groups of about a dozen and were given a review of some of the developments they had seen in previous years and a preview of the more recent developments.

W. B. B.

NEW OREGON ROSES

Oregon Centennial, a crimson hybrid tea rose, and Bellina, a peach-pink floribunda, both hybridized by Gordon J. Von Abrams, will be introduced this season by Peterson & Dering, rose growers, Scappoose, Ore. Named to commemorate the 100th anniversary of Oregon's statehood, Oregon Centennial is described as a vigorous rose, tall and full in growth, and clad in abundant, deep green foliage. The long, pointed bud is said to develop gracefully into a large flower, deep crimson in color, with about 35 velvety-textured petals, which is lightly cupped at maturity.

With the rose Charles Mallerin as one of its parents, it is expected to be a highly dependable garden rose in most areas of the country, blooming abundantly and continuously during the warm summer months, with a strong, sweet fragrance.

Bellina, a dainty peach-pink floribunda with yellow undertones, is said to be low and compact in growth, with a good continuity of bloom, and especially adaptable to planting in low borders and in other spots where a small bush is desirable. As described by the growers, it bears clusters of small, perfectly formed flowers two to two and one-half inches in size, the small buds being most attractive in form and color, and the blooms being full and high centered, with 45 petals each.

OREGON NOTES

The Emerald Empire chapter of the Oregon Association of Nurserymen held an interesting meeting at Eugene recently with 100 per cent attendance. W. P. Nuffer, Mountain View Nurseries, Troutdale, Ore., showed pictures of canned nursery stock and the process of canning and talked on the subject. Accompanying Mr. Nuffer to the meeting was President Joe Klupenger of the Oregon Association of Nurserymen. Con-



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Valley are finest, bare-root,
two-year-old plants available.

Wholesale only, but featuring a complete list of Hybrid Teas, Climbers and Floribundas, including all the A.A.R.S. Award Winners.

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FLOWERING ORNAMENTAL TREES
SHADE TREES

Constant Vigilance Results
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Combination carloads to eastern
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Write for our catalog listing
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OREGON HOLLIES

Skimmia japonica
General Nursery Stock
May we quote you?

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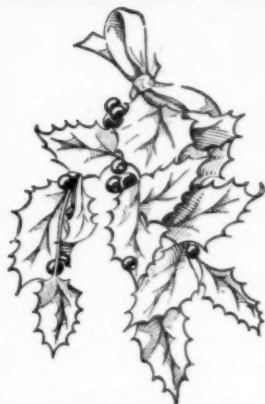
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Oregon English Holly

TEUFEL'S "HYBRID" PREMIUM GRADE

SELECTED DARK GREEN HEAVILY BERRIED SPRAYS

10 lbs. per carton	\$ 7.50
25 lbs. per carton, long	18.75
50 lbs. per carton, long	37.50

SELECT GRADE

GLOSSY green foliage with lots of red berries

\$6.50 per 10-lb. carton \$60.00 in lots of 100 lbs.

Selected shorter sprays also packed in:

ONE-POUND BOXES

\$10.80 per carton of 12 1-lb. boxes
\$13.50 per carton of 12 1-lb. boxes

WITH TRANSPARENT WINDOW

berried green
berried variegated
thornproof transparent bags

HALF-POUND BOXES

\$13.50 per carton of 24 ½-lb. boxes
\$16.00 per carton of 24 ½-lb. boxes

Approx. ½ lb. each—berried green, holly, \$16.00 per carton of 25 bags

TEUFEL'S VARIEGATED HOLLY

Not many berries on the Variegated this year

10 lbs. per carton\$8.75

25 lbs. per carton, long, \$21.85

50 lbs. per carton, long, \$43.70

All F.O.B. Portland, Ore.

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(More than 150 acres of producing holly orchard)

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CASH WITH ORDER, PLEASE

vention co-chairman, Reed Vollstedt, Reed's Garden Centers, Eugene, Ore., reported that things are shaping up well for the 1959 convention, which will be held at Eugene January 8 and 9. Reservations for booth space at the trade fair are rapidly being taken, it was reported. Robert Von Zonneveld, Van Dyke Gardens, and Clyde Parker, Parker's Greenhouses, will be in charge of decorations at the convention next year.

Miss Linda Anne Potter, daughter of Executive Secretary Charles H. Potter of the O. A. N., and Mrs. Potter, Milwaukie, Ore., has been appointed as Miss National Flower Week for Oregon by Neil Chase, Oregon chairman for N. F. W. Miss Potter will be appearing on radio and TV programs, meeting various dignitaries arriving in the city, and she is scheduled to make floral presentations to Governor Robert Holmes of Oregon and to his opponent in the race for governor, Mark Hatfield, secretary of state.

Don Perry, Sunnyside Nursery, San Anselmo, Calif., visited nurseries in the Portland area September 26 during a stopover on his way to British Columbia.

Don J. Martel, head, department of landscape architecture, Oregon

[Continued on page 92]

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Quality Stock

CONIFERS AND BROAD-LEAVED
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FRUIT TREES
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GENERAL NURSERY STOCK

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Forms for December 15 issue will close Friday, November 28.

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OVER 100,000.

SIZES RANGING FROM 4 ins. to 8 ft.

(Not all sizes in all varieties.)

Lath house and field-grown.

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KURUME, 4 to 6 ins., 35c; 6 to 8 ins., 75c;
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Fedora, 3-yr., TT \$1.00

Hino-Crimson (fiery red), 3-yr., TT, from beds 1.00

Kaempferi (seedling), 4-yr., TT75

*Mollis (orange-red), very hardy strain, 4-yr., T, from beds50 \$0.45

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Sherwood Red, 3-yr., T, from beds 1.00 .90

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Indicas, for forcing or outdoor planting.

Lining-out stock of Ilex, buxus, Taxus,

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(Atropurpurea) 2-yr. seedlings.

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Lining-out \$4.50 \$40.00

6 to 9 ins., branched 6.00 50.00

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18 to 24 ins., branched 32.00 280.00

RED-LEAVED BARBERRY

(Atropurpurea) 4-yr. transplants.

Heavy stock.

9 to 12 ins. \$24.00 \$200.00

12 to 18 ins. 28.00 240.00

18 to 24 ins. 32.00 280.00

2 to 2 1/2 ft. 36.00 320.00

Our Red Barberry is one of the finest

strains in the U.S.A.

DANEGGER'S HI-WAY NURSERY, INC.

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RED BARBERRY

Per 100 Per 1000

1-yr. seedlings, 6 to 10 ins., 50 to

special permit \$5.00 \$40.00

Special quotations on larger quantities.

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Barberry liners, Crimson Pigmy, julianae,

julianae nana, mentorensis.

Please see complete list on page 69.

Templeton, Phytotektor, Winchester, Tenn.

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10 to 50 100 100 up

Each Each Each

4-yr., T, 6 to 8 ins.,

puddled roots \$0.65 \$0.60 \$0.50

5-yr., T, 8 to 10 ins.,

puddled roots90 .80 .70

6-yr., T, 10 to 12 ins.,

puddled roots 1.10 1.00 .90

12 to 15 ins., B&B,

specimens 1.75 1.60 1.50

15 to 18 ins., B&B,

specimens 2.10 2.00 1.85

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specimens 3.25 . . .

BUXUS SUFFRUTICOSA (Dwarf English)

5-yr., T, 4 to 6 ins., puddled

roots65 .60 .50

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roots90 .80 .70

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specimens 1.35 1.25 1.15

10 to 12 ins., B&B,

specimens 2.10 2.00 1.85

12 to 15 ins., B&B,

specimens 2.75 2.60 . . .

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Buxus sempervirens (Boxwood), bushy 2-

yr., in bed; 12 ins., \$10.00 per 100, \$85.00 per

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Buxus sempervirens (Boxwood), strong

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HOLLAND-GROWN BULBS

DARWIN TULIPS, first size, 11 to 12 cm.

5c each, \$4.50 per 100 of one variety.

Jubilee (blue), Wm. Pitt (red), Pride of

Haarlem (deep rose), Yellow Giant (yel-

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PARROT TULIPS, 7 1/2c each.

Blue Parrot (blue), Orange Favorite (or-

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Champion (red), Black Parrot (blue-

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Cordell Hull (variegated white and red).

TULIPA FOSTERIANA, 10c each.

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G. W. Leak (crimson and orange), Carrara

(white), Marjorie Bowen (yellow edged

scarlet).

BREEDER TULIPS, 5c each.

Dillenburg (orange-scarlet).

TRIUMPH TULIPS, 5c each.

Kansas (white).

CROCUS, blooming size, 7 to 8 cm., 4c each.

King of the Blues, King of the Whites.

MUSCARI (Grape Hyacinth), 2c each.

SNOWDROPS, 4c each.

SCILLA (Camp, mixed), 2 1/2c each.

GIANT YELLOW TRUMPET DAFFODILS.

King Alfred, 6 1/2c each, \$6.00 per 100.

G. W. Leak (crimson and orange), Carrara

(white), Marjorie Bowen (yellow edged

scarlet).

DUTCH IRISES, 8 to 9 cm., 5c each.

Golden Harvest, White Excelsior, Wedg-

wood.

HYACINTHS, bedding size, 15 to 16 cm.,

10c each.

Pink Pearl (deep rose), La Victoire (car-

mine-red), L'Innocence (pure white), Bis-

marck (sky-blue), King of the Blues (deep

blue), City of Haarlem (golden yellow).

American-grown MADONNA LILY, jumbo

size, blooms Decoration day, 35c each.

American-grown REGAL LILIES, 15c each.

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TUBEROUS BEGONIAS

Giant double-flowering (Camellia type).

8 colors. Per 100 Per 1000

1 1/4 to 1 1/2-in. \$ 7.50 \$ 65.00

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Mammoth, 2 1/2-in. up 30.00 275.00

Double-flowering Fimbriata (Carnation

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1 1/4 to 1 1/2-in. \$ 7.50 \$ 65.00

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Picotee (true Camellia type), two-toned,

rose and white.

1 1/4 to 2-in. \$13.50 \$125.00

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Multiflora hybrids (Lilliput or miniature),

reds, salmon, yellow.

1 1/4-in. and up \$13.50 \$125.00

Minimum order \$5.00 of a type.

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The best leading commercial varieties.

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Mammoth, 2 1/2-in. up 30.00 275.00

Minimum order \$5.00 of a size.

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The finest new commercial named varie-

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FIELD-GROWN CHRYSANTHEMUMS

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FALL SPECIAL 20,000 DOGWOOD

Each, per 100

CORNUS FLORIDA	
6 to 8 ft., row-run	\$2.00
8 to 10 ft., extra heavy	6.00
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6 to 8 ft., row-run	6.00
8 to 10 ft., extra heavy	12.00
(B&B, 75¢ per tree.)	

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DOGWOOD

Cornus Florida	Per 100	Per 1000
30,000 1-yr., s. 8 to 12 ins.	4.50	\$ 35.00
understock	5.00	45.00
20,000 2-yr., s. 12 to 18 ins.	6.50	60.00
20,000 2-yr., s. 18 to 24 ins.	9.00	85.00
20,000 2-yr., s. 24 to 36 ins.	14.00	130.00
4 1/2 to 6 ft., B&B	275.00	
5 to 6 ft., B&B	325.00	
Cornus florida rubra		
3 1/2 to 4 ft., B&B	250.00	
4 1/2 to 5 ft., B&B	325.00	

PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

PINK DOGWOOD TREES

Very nice and bushy, 4 to 8 ft. high. Prices are for trees in the ground. Row-run, \$4.25. Digging can be arranged. Trees are mostly 5 to 7 ft. high; a few at 4 to 5 ft. high. Others priced according to height and shape.

SEIZ DOGWOOD NURSERY

317 Saw Mill Lane Horsham, Pa.

EVERGREENS, Liners

EVERGREEN LINERS

TAXUS

Per 100 Per 1000

Taxus media hatfieldi, 3000,	
6 to 8 ins., 2-yr. beds	\$35.00 \$325.00
Taxus cuspidata, 1500,	
6 to 8 ins., 2-yr. beds	32.50 300.00
All of the above plants grown 1 year without shade, clipped and nutrient fed.	
TERMS: Cash with order, free packing, or 25 per cent deposit, balance C.O.D. Specify when to ship.	

WEST END GREENHOUSES

Al Nordheden, Horticulturist
Box 82, 1200 N. Goodwin Urbana, Ill.

PINE, SPRUCE SEEDLINGS

AND LINERS

100 1000

Scotch Pine, 3-yr., 8 to 14 ins.	\$ 5.00 \$35.00
Colo. Blue Spruce, 4-yr.,	
6 to 12 ins.	8.00 55.00
Norway Spruce, 3-yr., 6 to 12 ins.	6.00 40.00
Juniperus glauca hetzi, 2-yr.,	
6 to 12 ins.	25.00
Spreading Jap. Yew, 3-yr.,	
4 to 8 ins.	30.00

Write for complete list.

PAINT CREEK NURSERIES

R. D. 1 Shipperville, Pa.

EVERGREEN LINERS AND CUTTINGS

POT-GROWN STOCK

Each, 100 1000

Stock from 2 1/2-in. pots	
Arborvitae, American, dark green,	
2-yr., 7 to 9 ins.	\$0.30 \$0.28
pyramidal, 2-yr., 7 to 9 ins.	.30 .28
Juniperus pfitzeriana, Armatron's,	
2-yr.	.30 .28
Juniperus chinensis pfitzeriana,	
2-yr. pots, 6 to 9 ins.	.30 .28
Juniperus glauca hetzi, 2-yr.,	
7 to 9 ins.	.30 .28
Taxus hatfieldi, 2-yr., 5 to 8 ins.	.30 .28
Taxus intermedia, 2-yr., 5 to 6 ins.	.30 .28
Taxus columnaris, Adams', 2-yr., 5 to	
6 ins.	.30 .28
Taxus hicksii, 2-yr., 6 to 8 ins.	.30 .28
Taxus andersoni, 2-yr., 6 to 8 ins.	.30 .28
Taxus cuspidata, 2-yr., 6 to 8 ins.	.30 .28
Taxus media, 2-yr., 6 to 8 ins.	.30 .28
Euonymus alatus compactus, 2-yr.	.22 .20
Boxwood, Korean, 2-yr., 3 ins.	.22 .20
Taxus sempervirens, 2-yr., 4 ins.	.22 .20

HEAVY ROOTED CUTTINGS

From flats, growing outside in lath house.

Hokwood, Korean, hardy, 3 ins.	\$0.09 \$0.08
Juniperus glauca hetzi, 6 ins.	.13 .12
Arborvitae elegantissima	.18 .12
Taxus hicksii, 5 to 8 ins., ready	.13 .12
Taxus intermedia, 5 to 6 ins., ready	.13 .12
Taxus cuspidata, 5 to 6 ins., ready	.13 .12
Taxus andersoni, 5 to 6 ins., ready	.13 .12
Taxus media, 5 to 6 ins., ready	.13 .12
Taxus hatfieldi, 4 to 5 ins.	.13 .12
Taxus browni, 4 to 5 ins.	.13 .12
Taxus capitata fastigiata, 4 ins.	.13 .12

TERMS: Packing and boxing recs. 3 per cent discount for cash with order.
350 plants of each variety at 100¢ rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREEN LINERS

Each, 100 1000

POTTED LINERS, 2 1/2-in. pots	
Pfitzer Juniper	\$0.25 \$0.20
Burk Juniper, 2-yr.	.25 .20
Woodward Globe Arborvitae	.21 .16
Pyramidal Arborvitae	.22 .17
Dark green American Arborvitae	.22 .17
Hetz glauca Juniper	.23 .18
POTTED LINERS, 2-in. pots	
Biota aurea nana, 2-yr.	.23 .18
Armstrong Pfitzer Juniper, 2-yr.	.23 .18

FIELD-GROWN LINERS, from

pots and 2-yr. nursery row.

Biota aurea nana	.45 .40
Pyramidal Arborvitae	.50 .45
Pfitzer Juniper	.45 .40
Armstrong Pfitzer Juniper	.55 .50
Woodward Globe Arborvitae	.45 .40
FIELD-GROWN LINERS, from pots	
and 1-yr. nursery row.	
Biota aurea nana	.35 .30
Pfitzer Juniper	.35 .30
Woodward Globe Arborvitae	.35 .30
Armstrong Pfitzer Juniper	.45 .40

ROOTED CUTTINGS, heavy rooted

cuttings in lath house.

ready nana	
Pfitzer Juniper	.12 .11
Hetz glauca Juniper	.11 .10
Pyramidal Arborvitae	.11 .10
Woodward Globe Arborvitae	.10 .09
Dark green American Arb.	.11 .10
Taxus browni	.10 .09

TERMS: Cash with order, free packing.
300 plants of a variety at 100¢ rate.
Write for special prices on large quantities.

VOGE NURSERY

New Lebanon, O.

TAXUS CAPITATA SEEDLINGS

Per 100 Per 1000

2-yr., 3 to 6 ins.	\$10.00 \$ 80.00
3-yr., 6 to 12 ins.	16.00 120.00

POTTED LINERS

2 1/2-in. rose pots

Per 100 Per 1000

Taxus media Adams	
2-yr., 6 to 10 ins.	\$24.00 \$220.00
Taxus media andersoni	
1-yr., 4 to 6 ins.	20.00 180.00
2-yr., 6 to 12 ins.	24.00 220.00
Taxus media browni	
1-yr., 4 to 6 ins.	20.00 180.00
2-yr., 6 to 10 ins.	25.00 230.00

Taxus cuspidata

1-yr., 4 to 6 ins.

2-yr., 6 to 12 ins.

24.00 220.00

Taxus cusp., cuspidata, sdig.-grown

3-yr., 4 to 8 ins.

27.50 250.00

Taxus Halloran

1-yr., 4 to 6 ins.

2-yr., 6 to 10 ins.

20.00 180.00

Taxus media hatfieldi

1-yr., 4 to 6 ins.

2-yr., 6 to 10 ins.

20.00 180.00

Taxus media hatfieldi No. 18

1-yr., 4 to 6 ins.

2-yr., 6 to 10 ins.

20.00 180.00

Taxus media hatfieldi No. 24

2-yr., 6 to 10 ins.

25.00

Taxus media hicksii

1-yr., 4 to 6 ins.

2-yr., 6 to 12 ins.

20.00 180.00

Taxus media hunnewelliana

1-yr., 4 to 6 ins.

2-yr., 6 to 12 ins.

20.00 180.00

Taxus intermedia

1-yr., 4 to 6 ins.

2-yr., 6 to 12 ins.

24.00 220.00

Taxus media Kelsey

1-yr., 4 to 6 ins.

20.00 180.00

(Continued in next column)

(Continued from previous column)

Taxus media Moon's columnaris

1-yr., 4 to 6 ins.

20.00 180.00

Taxus media thayerae

1-yr., 4 to 6 ins.

20.00 180.00

2-yr., 6 to 12 ins.

24.00 220.00

Taxus cusp. vermeuleni

1-yr., 4 to 6 ins.

20.00 180.00

Taxus media wardi

1-yr., 4 to 6 ins.

22.50 200.00

Taxus media wellesleyana

1-yr., 4 to 6 ins.

20.00 180.00

Taxus media wymani

1-yr., 4 to 6 ins.

22.50 200.00

Juniperus horizontalis plumosa

1-yr., 4 to 6 ins.

20.00 180.00

Juniperus communis depressa aurea

1-yr., 6 to 10 ins.

20.00 180.00

Juniperus glauca hetzi

1-yr., 4 to 6 ins.

20.00 180.00

Juniperus chin. Nelson

1-yr., 4 to 6 ins.

22.50 200.00

Juniperus chin. pfitzeriana

1-yr., 4 to 6 ins.

20.00 180.00

2-yr., 6 to 10 ins.

24.00 220.00

Thuja occ. Douglas Golden

1-yr., 4 to 6 ins.

20.00

Thuja occ. elegantissima

1-yr., 4 to 6 ins.

20.00 180.00

Thuja occ. hetzi Winter Green

1-yr., 4 to 6 ins.

20.00 180.00

Thuja occ. pyramidalis

1-yr., 4 to 6 ins.

20.00 180.00

Thuja occ. woodwardi

1-yr., 4 to 6 ins.

20.00 180.00

FIELD LINERS

Taxus media Adams

3-yr., TT, 8 to 12 ins.

35.00 325.00

Taxus media andersoni

3-yr., TT, 8 to 12 ins.

35.00 325.00

Taxus media browni

3-yr., TT, 8 to 12 ins.

35.00 325.00

Taxus cuspidata

3-yr., TT, 8 to 12 ins.

35.00 325.00

Taxus media hatfieldi No. 18

3-yr., TT, 6 to 10 ins.

35.00 325.00

Taxus media hicksii

3-yr., TT, 6 to 12 ins.

35.00 325.00

Taxus media hunnewelliana

3-yr., TT, 6 to 12 ins.

35.00

Taxus intermedia

3-yr., TT, 6 to 12 ins.

EVERGREENS, Liners—Continued

FIELD-GROWN LINERS

	Each	100	1000
Greek Juniper, 8 to 12 ins.	\$0.15	\$0.13
Greek Juniper, 6 to 8 ins.	12	10
Hetz Juniper, 8 to 12 ins.	17	15
Hetz Juniper, 6 to 8 ins.	14	12
Savin Juniper, 8 to 12 ins.	12	10
Savin Juniper, 6 to 8 ins.	08	07
Pfitzer Juniper, 8 to 12 ins.	17	15
Pfitzer Juniper, 6 to 8 ins.	14	12
Polish Juniper, 12 to 15 ins.	12	10
Ashford Juniper, 8 to 12 ins.	12	10

BED-GROWN

Ilex rotundifolia (Jap. Holly)	.....	12	10
Burford Holly (Chinese)	.....	12	10
Sargent Barberry	.....	12	10
Ilex bullata (Holly)	.....	12	10

POTTED PLANTS (2 1/2-IN.)

Andorra Juniper	.....	17	15
Sargent Barberry	.....	20	18
Burford Holly	.....	15	13
Mahonia Holly	.....	17	15
Yaupon Holly	.....	17	15
Magnolia	.....	16	15
Burk Juniper	.....	35	33
Pyracantha (red berry)	.....	16	15

Packing and boxing free, 2 per cent discount for cash with order, 250 plants of each variety at 1000 rate.

GRANT'S NURSERY

Route 2 Caledonia, Miss.

BERCKMANS' GOLDEN ARBORVITAE

OUR SPECIALTY

Sturdy liners, dirt-grown in full sun.

	Each	100	1000
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4 to 6 ins.	8c	7 1/2c
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6 to 8 ins.	11c	10c
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8 to 10 ins.	16c	15c
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10 to 12 ins.	22c	20c
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THE BUSH RANCH

140 Woodland Dr. Thomasville, Ga.

James W. Lawson, Mgr. Phone CA 6-4245

JUNIPER GRAFTS

Spring 1959 delivery.

VARIETIES: Burk, canaertii, columnaris, blue; Dundee, glauca, ketelerei and various Pfitzers, Virginiana understock used.

45c each, F.O.B. Louisville, Ky.

Packing at cost.

HALLENBERG NURSERY

R. 2, Box 119 Anchorage, Ky.

CANADA HEMLOCK

Carefully collected.

8 to 12 ins.	\$65.00	per 1000
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8 to 18 ins.	70.00	per 1000
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SUNBURY AIRPORT NURSERY

P. O. Box 416 Sunbury, Pa.

Phone AT 6-2671

Scotch Pine seedlings

Best for Christmas tree planting 100 1000

2-yr., 4 to 8 ins.	\$3.00	\$20.00
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2-yr., 2 to 4 ins.	1.50	8.00
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3-yr., 6 to 12 ins.	4.00	28.00
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Blue Spruce seedlings

4-yr., 4 to 8 ins.	5.00	40.00
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3-yr., 2 trana.	8.00	65.00
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Terms: 10 per cent down, balance c.o.d.

Vernon Dale Nursery, R. 4, Meadville, Pa.

3-YR., ROOT-PRUNED EVERGREENS

Per 100 Per 1000

Concolor Fir, 6 to 8 ins.	\$ 8.00	\$50.00
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Concolor Fir, 4 to 6 ins.	6.00	40.00
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Colo. Douglas Fir, 5 to 8 ins.	10.00	60.00
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Colo. Douglas Fir, 3 to 5 ins.	8.00	50.00
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Scotch Pine, 18 ins.	10.00	60.00
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WESTERN EVERGREENS

Route 1 Golden, Colo.

NANDINA SEEDLINGS

1-yr., 4 to 6 ins., \$5.00 per 100, \$45.00 per 1000.

2-yr., 12 to 15 ins., \$10.00 per 100, \$90.00 per 1000.

3-yr., 2 to 3 ft., \$15.00 per 100, \$125.00 per 1000.

PINKSTON NURSERIES, PARROTT, GA.

SEEDLINGS

Pines, Spruces, Firs and Arborvitae, 2 and 3-yr. seedlings and transplants. We also have finished ornamentals in Junipers, Yews, Arborvitae, Mugho Pine, etc. Write for price list.

KISSINGER'S NURSERY

26 Ridge Ave. Homer City, Pa.

TAXUS

Each, 100

Cuspidata, capitata, hickai		
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8 to 10 ins., 5-yr., lining-out	\$0.90	
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10 to 15 ins., 5-yr., lining-out	1.25	
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row-run	1.00	
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Cuspidata, 4-yr., lining-out75	
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RICHARDSON NURSERIES, INC.

53947 Fir Rd., R. 1 Granger, Ind.

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC. Columbus, Miss.

Nandina domestica, extra nice, 4 to 6 ins., \$40.00 per 1000. Minimum order 500. Boston Mountain Nursery, Mountaiburg, Ark.

DOUGLAS FIR
2-yr., field-grown, average 6 to 8 ins., graded. Root pruned. Very carefully packed.
\$25.00 per 1000, F.O.B. Sheridan.
\$100.00 per 5000, F.O.B. Sheridan.
Order now. Spring 1959 delivery.
5 per cent discount all cash orders.
FULTON V. SMITH, SHERIDAN, ORE.

EVERGREENS, B&B

PFITZER JUNIPER

Transplanted, extra nice, sheared.

Per 30-100 Per 1000

12 to 15 ins.	\$1.85	\$1.60
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15 to 18 ins.	2.50	2.00
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18 to 24 ins.	2.75	2.50
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24 to 30 ins.	3.75	3.50
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NORWAY SPRUCE

18 to 24 ins.	\$2.00	\$1.75
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2 to 2 1/2 ft.	2.25	2.00
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2 1/2 to 3 ft.	3.00	2.75
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3 to 4 ft.	5.00	...
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SCOTCH PINE

18 to 24 ins.	\$2.00	\$1.75
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2 to 3 ft.	2.75	2.50
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3 to 3 1/2 ft.	3.75	3.50
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3 1/2 to 4 ft.	4.75	...
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Please send for wholesale list.

R. BRUMOND SMITH NURSERY

R. R. 2, Box 198 Muncie, Ind.

Phone AT 2-5144

EVERGREENS, ETC. B&B

2100 Andorra Juniper, 18 to 24 ins.	\$2.00	
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390 Andorra Juniper, 24 to 30 ins.	2.50	
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230 Andorra Juniper, 30 to 36 ins.	2.95	
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3600 Hetz Juniper, 18 to 24 ins.	2.25	
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2700 Hetz Juniper, 24 to 30 ins.	2.50	
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4200 Ilex rotundifolia, 15 to 18 ins.	2.25	
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2300 Ilex rotundifolia, 18 to 24 ins.	2.75	
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2100 Pfitzer Juniper, 18 to 24 ins.	2.50	
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1100 D. Mugho Pine, 18 to 24 ins.	2.20	
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700 Dogwood, white-fl., 4 to 5 ft.	2.95	
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900 Dogwood, white-fl., 5 to 6 ft.	2.95	
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600 Dogwood, white-fl., 6 to 7 ft.	4.00	
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400 Dogwood, white-fl., 7 to 8 ft.	6.60	
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Can quote on larger grades. Looking for a deal? We also sell row-run and by the block.

Above stock closely sheared. Fine balling soil. To avoid delay, give us advance notice of your arrival. Phone 395.

WHERRY'S NURSERIES, St. Marys, W. Va.

EVERGREEN BARGAINS

Canaert Juniper, heavy, sheared,

row-run, 4 to 5 ft.	\$3.75	
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Fastigiata Juniper, sheared, 5 to 6 ft.	2.50	
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Pyramidal Arborvitae, 5 to 6 ft.	3.00	
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Pyramidal Arborvitae, 3 to 4 ft.	2.25	
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Canaert Juniper, not sheared, 5 to 6 ft.	3.50	
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Canaert Juniper, extra heavy, 6 to 7 ft.	6.00	
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Mugho Pine, nice dwarf, 15 to 18 ins.	2.00	
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Mugho Pine, 18 to 20 ft.	2.50	
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Pfitzer Juniper, 3 to 3 1/2 ft.	2.50	
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Hetz Juniper, 3 1/2 to 4 ft.	2.00	
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Terms: Cash, or one-fourth deposit with order.

T. C. CRUME NURSERY & LANDSCAPING CO.

Highway No. 42 Florence, Ky.

(12 miles from Cincinnati)

Phone ATLantic 3-2361

SHEARED STOCK, GOOD BALL

Biota excelsa, 30 to 36 ins.	\$1.25	
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Biota orientalis, 3 to 4 ft.	1.00	
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Juniperus glauca hetz, 18 to 21 ins.	1.25	
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Juniperus stricta, 18 to 21 ins.	1.25	
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Retinospora plumosa, 24 to 30 ins.	1.25	
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Taxus hicksii, 24 to 30 ins.	2.50	
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Euonymus japonicus, 24 to 30 ins.	1.00	
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Ligustrum lucidum, 24 to 30 ins.	1.25	
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Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.

Route 45, R. D. 1 Salem, N. J.

Phone Salem 2356

PFITZER AND HETZ JUNIPERS

5000 sheared and well-cultivated.

15 to 18 ins.	\$1.00	each
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18 to 24 ins.	1.25	each
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BUXUS SEMPERVIRENS

6 to 8 ins.	\$ 2.50	per 100
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10 to 12 ins.	6.00	per 100
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12 to 15 ins.	100.00	per 100
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Special price on large quantities.

A. J. BUTTERFIELD, FARMINGTON, MO.

EVERGREENS, B&B

Pinus strobus, 3 to 4 ft.	\$2.00; 4 to 5 ft., \$2.50; 5 to 6 ft., \$4.00 each.	
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Ligustrum lucidum, 2 to 3 ft.	\$1.50; 3 to 4 ft., \$3.00.	
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Abelias, 2 to 3 ft.	\$1.50; 3 to 4 ft., \$2.50.	
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Spiraea vanhouttei, 3 to 4 ft.	\$1.50.	
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F. B. nursery.

LIBERTY NURSERIES

Route 1, Box 61 Greenville, S. C.

LIVE CHRISTMAS TREES

Extremely fine trees, B&B with no-rot burlap. Black Hills Spruce, 4 ft., \$4.25; 5 ft., \$6.00; 6 ft., \$8.50. Colorado Green Spruce, 4 1/2 ft., \$6.25; 5 ft., \$7.00; 5 1/2 ft., \$8.00. Spruce boughs, \$60.00 per ton.

HOUSEL'S NURSERY

U. S. 23 Temperance, Mich.

FRUIT AND NUT TREES

DWARF EAST MALLING ROOT STOCK for Apples, Pears, Peaches.

See our ad on page 63.

V. KRAUS NURSERIES

Carlisle, Ont., Canada

CHOICE FRUIT TREES

FOR FALL OR SPRING SHIPMENT

2-yr. and dormant bud Apple trees. Varieties as follows: Red Delicious, Yellow Delicious, Red June, Lodi, Red Jonathan and Twenty Ounce, 2 to 3 ft., 30c; 3 to 4 ft., 40c; 4 to 5 ft., 50c each. Mostly branched and dormant bud Pear trees, mostly branched and very nice. Varieties: Kieffer, Garber and Bartlett, 4 to 5 ft., 60c; 5 to 6 ft., 75c each. Some of the 5 to 6 ft. will run 6 to 7 ft.

Dormant bud Peach trees. Varieties: Redhaven, Dixigem, Early Elberta, Golden Jubilee, Halehaven, Giant Hale, Elberta and Georgia Bell, 3 to 4 ft., 30c; 4 to 5 ft., 40c; 5 to 6 ft., 50c each.

June bud Peach trees. Varieties: Cardinal, Dixired, Dixigem, Early Elberta, Redhaven, Halehaven, Elberta, Giant Hale, Red Cap, Red Indian and Red Flowering, 12 to 18 ins., 15c; 18 to 24 ins., 20c; 2 to 3 ft., 25c; 3 ft. up, 30c each. These are extra clean and nice.

Grapevines, 2-yr.-old, No. 1 vines, 15c each. Varieties: Concord, Fredonia and Delaware. We have a few hundred Niagara.

PERIWINKLE

Hardy running Myrtle (Vinca minor), heavy 15 to 25-cane clumps of better than ever quality, dug and shipped fresh, \$50.00 per 1000.

Honeysuckle (Hall's halliana), 2 to 3 branched, \$45.00 per 1000.

English Ivy (Hedera helix), 1-yr., rooted cuttings, \$50.00 per 1000.

Pachysandras, 1-yr., rooted cuttings, \$50.00 per 1000.

H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

HEAVY EUONYMUS

Euonymus coloratus, 18 to 24 ins.\$0.65

24 to 30 ins.90

Euonymus Vegetus, 10 to 12 ins.65

12 to 15 ins.80

15 to 18 ins. 1.00

18 to 24 ins. 1.25

Priced F.O.B. nursery, bare-root. Minimum 10 plants. Add 50c for balled and burlapped.

THE MEAD NURSERY & FARMS

Route 5 Oconomowoc, Wis.

HARDY MYRTLE AND EUONYMUS

Myrtle, 1000, \$50.00; 2000 to 10,000, \$45.00

per 1000; over 10,000, \$40.00 per 1000.

Euonymus coloratus, erectus and minimus,

1, 2, 3 and 4-yr. plants. Also specimen

Sugar Maples.

VAUGHAN'S NURSERY

& GREENHOUSE PRODUCTS

15910 Cleveland Rd. Granger, Ind.

Hardy Myrtle (Vinca minor), plants with

20 leads or more and good roots, \$5.00 per

100, \$45.00 per 1000. Pachysandras, sand-

rooted cuttings, \$40.00 per 1000. Cash.

Also potted stock of all items listed.

Samuel I. Minder, 305 Euclid Ave., Lan-

caster, Pa.

PACHYSANDRAS

Strong plants, \$50.00 per 1000.

2 per cent discount, cash with order.

H. C. WAUGH

Box 41 Gallipolis, O.

VINCA MINOR

\$15.00 per 100; 1000 or more,

\$40.00 per 1000. Cash with order.

VERONA GARDENS, TED GREVERS

Route 5 Battle Creek, Mich.

HARDWOOD CUTTINGS

Unrooted. From our own bushes and plant-

ings. Hand-trimmed, ready for bed planting.

Guaranteed true to name.

Per 1000

Andorra Juniper\$15.00

Betz Blue Juniper 15.00

Burk Juniper 15.00

Canaert Juniper 15.00

Hillspire Juniper 15.00

Keteley Juniper 15.00

Meyer Juniper 20.00

Irish Juniper, fastigiata 15.00

Pfitzer Juniper 15.00

Savin Juniper 15.00

Spiny Greek Juniper 15.00

Dark green Arborvitae, nigra 15.00

Globe Arborvitae 15.00

Pyramidal Arborvitae 15.00

Swedish Juniper 15.00

Siberian Arborvitae, wareana 15.00

Upright Yew, Taxus cuspidata, tips 15.00

Spreading Yew, Taxus cuspidata 15.00

Delivery at any time, 500 at 1000 rate.

Packed free. Cash with order, please.

BOB NEPRASH NURSERIES

"Shangri-La"

Rt. 2 Cedar Rapids, Ia.

HARDWOOD CUTTINGS

We specialize in furnishing hardwood cut-

HARDY FIELD-GROWN PERENNIALS

Aquilegias, separate colors; Arabis, Aubrietias, Campanulas, Carnations, Chlives, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Digitalis, Doronicum, Gailardias, Geums, Helleborus niger, Iberis sempervirens, English Lavender, Lythrum, Russell Lupines, Myosotis, Oriental Poppies, Phlox sub., 15 varieties; Primroses, Pyrethrum, Shasta Daisy Esther Reed, Sedums, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Violas, Violets. If you have not received our list, send for it now 100 more good varieties.

All plants fresh dug for each order.

Shipping now.

GEORGE FRANK & SON

Penfield, N. Y.

HARDY PLANTS

Our new listing of well-developed perennial plants is now available. Plan now to set our field-grown plants into pots or bands, so that you may have them ready to go for the early spring rush.

WALTERS GARDENS

Route 2 Zeeland, Mich.

SPECIALIZING IN PERENNIALS

We grow over 500,000 strong field-grown plants.

Send for our current price list.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

PITZONKA'S FIELD-GROWN

PERENNIALS

Strong field-grown plants. Write for trade list.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

IBERIS SEMPERVIRENS

Fine 2-yr. plants, \$2.50 per 10, \$22.00 per

100, \$210.00 per 1000.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

NEW DWARF OREGON ASTERS

AND MANY OTHER FINE PERENNIALS

Write for trade list.

CASCADE GARDENS

Route 1, Box 509 Canby, Ore.

WELLERS BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

Liriope, hardy, evergreen, for walks and

border; strong divisions, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

HELLEBORUS

HELLEBORUS NIGER

(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to pot up for sales on roadside

stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGEENDOORN

Turner Rd. Newport, R. I.

HEMEROCALLIS

HEMEROCALLIS

Dawn, Mikado, Rajah, Theron, A. Pioneer,

\$15.00 per 10, \$120.00 per 100.

Purple Waters, Sachem, Serenade, Sweet-

briar, Hankow, Vesta, 10, \$25.00; 100, \$200.00.

HURLEY NURSERY, FAIRBURN, O.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads

HOLLY

HOLLY

High-quality landscape and sales yard material. Heavy, field-grown, sheared.

Ilex burfordi (Chinese) 10 100

24 to 30 ins.\$2.25 \$2.00

30 to 36 ins. 2.75 2.50

36 to 42 ins. 3.25 3.00

30 to 36 ins., extra heavy, 30 to 36 ins.

wide, each, \$3.50.

36 to 42 ins., extra heavy, 30 to 36 ins.

wide, each, \$4.00.

Ilex, crenata convexa, microphylla and

tundifolia.

15 to 18-in. spread\$2.00 \$1.75

18 to 24-in. spread 2.50 2.25

24 to 30-in. spread, real nice 3.25 3.00

Ilex opaca East Palatka, berried

24 to 30 ins., heavy\$2.00 \$1.75

30 to 36 ins., heavy 2.50 2.25

3 to 3 1/2 ft. heavy, 3.25 3.00

Ilex cassine, heavily berried

24 to 30 ins.\$1.75 \$1.50

30 to 36 ins. 2.00 1.75

3 to 4 ft. 2.75 2.50

4 to 5 ft., heavy, extra nice 3.25 3.00

ROBBINS NURSERY, INC., Willard, N. C.

Phone Wallace, N. C., AT 5-2702

HOLLY

AMERICAN, ENGLISH, JAPANESE

Hardy named varieties, 2 1/2 and 3-in. pots, 1 and 2-yr. transplants. Rooted cuttings of Ilex crenata varieties. Save 10 per cent by accepting delivery this fall. Descriptive catalog on request.

JOHN VERMEULEN & SON, INC.

Neehanic Station, N. J.

Finer liners since 1921.

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

MAY WE QUOTE YOU ON OUR

BETTER OREGON HOLLIES?

Skimmia Japonica, general nursery stock.

ALFRED TEUFEL, WHOLESALE GROWER

11414 N. W. Cornell Rd. Portland, Ore.

ILEX AQUIFOLIUM

From our own northern Ohio stock plants.

2-yr., bedded, female, \$30.00 per 100.

MAHLSTEDE BROS.

5323-5351 Wilson Mills Rd. Cleveland 24, O.

Holly liners, Ilex opaca, Ilex cornuta bur-

fordi, Ilex, crenata convexa, helix and

tundifolia.

Please see complete list on page 69.

Templeton, Phytotektor, Winchester, Tenn.

Ilex glabra, 2 yrs. old, heavy roots from

beds, \$20.00 per 100, \$125.00 per 1000.

Cedarhurst Nurseries, Inc., 3044 Pawtucket

Ave., East Providence, R. I.

Start Your Offer Now

In the American Nurseryman

And Watch Sales Climb

HONEYSUCKLES

HONEYSUCKLES

Loniceria japonica halliana, extra-heavy

No. 1, 3 and 4-yr., 18 to 24-in. field plants,

3, 4 to 6 leads, \$40.00 per 1000; lighter grade,

\$30.00 per 1000; sample, 100, \$4.00. Experi-

enced labor for grading and packing quan-

tity orders. Immediate shipment. No order

too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckles, good plants, well

packed, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

IRISES

IRISES

5 of a variety at 10 rate.

25 of a variety at 100 rate.

Per 10 Per 100

ALADDIN'S WISH, blue\$1.50 \$12.00

BIRLING BLUE, blue 1.50 12.00

BLUE SHIMMER, blue on white 1.50 12.00

CHRISTABEL, copper-red 1.50 12.00

ELSA SASS, sulphur-yellow 1.50 12.00

FLORA ZENOR, pink 1.50 12.00

HARRIET THOREAU,

orchid-pink 1.50 12.00

INDIAN HILLS, purple 1.50 12.00

JAKE, white 1.50 12.00

MAJENICA, salmon-pink 1.50 12.00

MELANIE, pink 1.50 12.00

MING YELLOW, yellow 1.50 12.00

MULBERRY ROSE, mulberry 1.50 12.00

NOONDAY SKY, sky-blue 1.50 12.00

RED GLEAM, chestnut-red 1.50 12.00

RED MEADOW, red 1.50 12.00

ROYAL COACH, dark blue 1.50 12.00

TEFFANY, reddish brown 1.50 12.00

VIOLET CROWN, lilac 1.50 12.00

WABASH, white velvet 1.50 12.00

PARKER'S PEONY FARM AND NURSERY

Fayetteville, N. Y.

Japanese Irises (kaempferi), assorted col-

ors, labeled; blooming size divisions, 50 for

\$6.00; 100 for \$110.00, prepaid.

V. W. Wilson, R. 3, Savannah, Ga.

IVIES

IVIES

BALTIC IVY

Hardest ivy. Fine for wall or ground

cover. True stock. Well-rooted plants.

Per 100 Per 1000

Rooted cuttings\$ 7.00 \$ 65.00

2-in. pots 12.50 115.00

NEW THORNDAL IVY

2 1/2-in. pots\$25.00 per 100

Euonymus kewensis, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr., field-grown, \$35.00 per 100.

STRATFORD GARDENS

Russell Breece, M. R. 9 Delaware, O.

ENGLISH IVY (HEDERA HELIX)

Our super quality large-leaved strain.

Approved landscape architects' standards.

Order now! Ready for immediate shipment.

Strong 5 to 7-in. cuttings from field plants,

LAWN GRASS AND SEED

"PURE KY." BLUE GRASS LAWN SEED
We have a beautiful crop of bright, clean seed this year and you will be delighted with the price, quality and results. Order a good supply now.
100 lbs. \$37.50; 50 lbs. \$19.50; 25 lbs. \$10.50; 10 lbs. \$5.00. All F.O.B. here, subject to price change and unsold.

WALNUT LAWN FARM
Route 2 Lexington, Ky.

LILACS

FRENCH HYBRID LILACS

Heavy plants, well-grown with irrigation. Each, 10

2 to 3 ft. \$0.95
3 to 4 ft. 1.25

WHITE

Ellen Willmott, Marie Legraye, Mont Blanc, Special White.

BLUE

President Lincoln, Pres. Grevy.

LILAC

Jacques Callot, Thunberg, Michel Buchner, Alphonse Lavallee.

PINK AND PINKISH

Katharine Havemeyer, Lucie Baltet, Belle de Nancy, Jean Bart, Berryer, Leon Gambetta, Pres. Carnot.

MAGENTA

Condorcet, Charles Joly.

PURPLE

Ludwig Spaeth.

Priced F.O.B. nursery. Packing extra.

THE MEAD NURSERY & FARMS
Route 5 Oconomowoc, Wis.

LILAC SPECIMENS

Bushy, shapely and own-root. Grown from cuttings. DECAISNE, single blue; 5 to 6 ft. GEO. BELLAIR, double red; 4 to 5 ft. J. d'ARC, double white; 4 to 5 ft. MME. F. MOREL, single red; 5 to 6 ft. PRES. FALIERES, double pink; 4 to 5 ft. and 5 to 6 ft. PRES. GREVY, double blue; 5 to 6 ft. PRICES: Bare-root, your truck, 4 to 5 ft., \$30.00 per 10, \$275.00 per 100; 5 to 6 ft., \$40.00 per 10, \$375.00 per 100. Come and see them.

FARR NURSERY CO., WOMELSDORF, PA.
Phone Luther 9-5601

LILACS.

10 to 100

LINERS, COMMON \$0.08

WHITE \$0.10

BUSHES

2 to 3 ft., COMMON .30

CONGO, single red, 3 to 4 ft. 1.10

LEON MATHEAU, single red, 3 to 4 ft. 1.10

MME. CATHERINE BRUCHET, double white, 3 to 4 ft. 1.10

PARKER'S PEONY FARM AND NURSERY
Fayetteville, N. Y.

LINING-OUT STOCK

LINING-OUT LIST
PRICES SUBJECT TO CHANGE
WITHOUT NOTICE.

ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING WHICH OMITS THIS ADDED PROTECTION, MAY DEDUCT 1c PER PLANT. MINIMUM QUANTITIES: ORDERS FOR 25 TO 249 OF A VARIETY IN ONE SIZE TAKE THE 100 RATE. ORDERS FOR 250 OR MORE OF A VARIETY IN ONE SIZE TAKE THE 1000 RATE.

Each, 100 1000

BIOTA AUREA NANA

2 1/2-in. pots \$0.17 \$0.16

2 1/2-in. pots .20 .17

BIOTA AUREA PYRAM. COMP.

2 1/2-in. pots .18 .16

BIOTA BAKERI

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

BIOTA BONITA

2 1/2-in. pots .17 .16

*2 1/2-in. pots .20 .17

BIOTA BONITA, upright

*2 1/2-in. pots .18 .

*2 1/2-in. pots .20 .

BIOTA EXCELSA

2 1/2-in. pots .18 .17

2 1/2-in. pots .20 .19

BIOTA SIBYL

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

CEDRUS DEODARA

6x8-in. seedlings .12 .10

2 1/2-in. pots .12 .14

2 1/2-in. pots .18 .16

BLUE LAWSON CYPRESS

2 1/2-in. pots .16 .15

2 1/2-in. pots .17 .16

ITALIAN CYPRESS

*2 1/2-in. pots .18 .16

JUNIPERUS CHIN. PFITZERIANA

2 1/2-in. pots .18 .16

2 1/2-in. pots .19 .17

JUN. CHIN. PFITZERIANA COMP.

2 1/2-in. pots .18 .16

2 1/2-in. pots .19 .17

JUN. CHIN. PFITZERIANA NANA

2 1/2-in. pots .19 .18

2 1/2-in. pots .25 .24

(Continued in next column)

(Continued from previous column)

JUN. PFITZERIANA BLUE GRAY

2 1/2-in. pots .17 .15

2 1/2-in. pots .19 .17

JUN. COM. CRACOVIA (POLISH)

2 1/2-in. pots .15 .

JUN. EXCELSA STRICTA

2 1/2-in. pots .18 .16

2 1/2-in. pots .20 .18

JUN. GLAUCA HETZI

2 1/2-in. pots .18 .16

2 1/2-in. pots .20 .18

JUN. HIBERNICA FASTIGIATA

2 1/2-in. pots .17 .16

2 1/2-in. pots .18 .17

JUN. ANDORRA

2 1/2-in. pots .17 .16

2 1/2-in. pots .18 .17

JUN. JAPONICA PROCUMBENS

2 1/2-in. pots .20 .

JUN. JAPONICA VIRGINALIS

*2 1/2-in. pots .16 .

2 1/2-in. pots .20 .

JUN. VIRGINIANA KETELEERI

2 1/2-in. pots .22 1/2 .

2 1/2-in. pots .20 .18

PINUS CARIBAEA (SLASH PINE)

2 1/2-in. pots .10 .

2 1/2-in. pots .12 .

THUJA OCC. GLOBOSA

2 1/2-in. pots .17 .16

2 1/2-in. pots .19 .17

THUJA OCC. PYRAMIDALIS

2 1/2-in. pots .17 .16

2 1/2-in. pots .19 .17

THUJA OCC. HETZ'S WINTER

GREEN

*2 1/2-in. pots .17 .16

*2 1/2-in. pots .19 .18

TAXUS BREVIFOLIA

2 1/2-in. pots .19 .17

2 1/2-in. pots .20 .18

TAXUS CUSPIDATA

2 1/2-in. pots .19 .17

2 1/2-in. pots .20 .18

TAXUS MEDIA HICKSI

2 1/2-in. pots .19 .17

2 1/2-in. pots .20 .18

TAXUS INTERMEDIA

2 1/2-in. pots .19 .17

TAXUS MEDIA SIEBOLDI

2 1/2-in. pots .19 .17

2 1/2-in. pots .20 .18

ABELIA GRANDIFLORA

2 1/2-in. pots .13 .12

2 1/2-in. pots .15 .14

8x12 ins. TT. field-grown .16 .15

12x15 ins. TT. field-grown .18 .17

BERBERIS JULIANAE

2 1/2-in. pots .20 .18

2 1/2-in. pots .22 1/2 .20

BERBERIS SARGENTI

*2 1/2-in. pots .18 .16

BUXUS JAPONICA

Rooted cuttings .08 .06

2 1/2-in. pots .13 .12

2 1/2-in. pots .15 .14

BUXUS SEMPERVIRENS

2 1/2-in. pots .17 .16

2 1/2-in. pots .19 .18

BUXUS SEMPERVIRENS CRONI

2 1/2-in. pots .20 .18

BUXUS SUFFRUTICOSA

2 1/2-in. pots .18 .16

2 1/2-in. pots .20 .18

3-in. Vita-Pots .25 .22 1/2

CAMELLIA SASANGUA

MAIDES BLUSH

2 1/2-in. pots .14 .12

COTONEASTER PARNEYI

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

EUONYMUS MICROPHYLLUS

FULCHELLUS

2 1/2-in. pots .17 .15

2 1/2-in. pots .19 .17

EUONYMUS RADICANS RECTUS

2 1/2-in. pots .16 .15

2 1/2-in. pots .16 .15

EUONYMUS PATENS, large leaf

2 1/2-in. pots .15 .12

GARDENIA FORTUNEI

2 1/2-in. pots .15 .14

2 1/2-in. pots .16 .15

GARDENIA RADICANS

2 1/2-in. pots .15 .14

2 1/2-in. pots .16 .15

ILEX CORNUTA FEMINA

2 1/2-in. pots .20 .

ILEX CORNUTA, seedlings

2 1/2-in. pots .14 .12

2 1/2-in. pots .15 .14

ILEX CORNUTA BURFORDI

2 1/2-in. pots .15 .14

2 1/2-in. pots .16 .15

ILEX CREN. CONVEXA BULLATA

2 1/2-in. pots .17 .16

2 1/2-in. pots .18 .17

ILEX CRENATA POSTERI NO. 1

A new low growing compact spreader. Its small serrated foliage leaves are not convex and are more pointed than those of Ilex convexa bullata. Excellent material for plantings where low compact spreading specimens are required.

2 1/2-in. pots .18 .16

(Continued in next column)

(Continued from previous column)

ILEX CRENATA HETZI

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

ILEX CRENATA REPANDENS

*2 1/2-in. pots .15 .14

ILEX CRENATA ROTUNDIFOLIA

Rooted cuttings .06 .05

2 1/2-in. pots .13 .14

2 1/2-in. pots .16 .15

ILEX OPACA FEMINA

2 1/2-in. pots .22 1/2 .20

2 1/2-in. pots .25 .22 1/2

ILEX OPACA, male

2 1/2-in. pots .22 1/2 .

ILEX OPACA, seedlings

2 1/2-in. pots .14 .12

2 1/2-in. pots .17 .15

ILEX OPACA EAST PALATKA

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

ILEX VOMITORIA

2 1/2-in. pots .15 .

ILEX VOMITORIA NANA (dwarf)

2 1/2-in. pots .22 .20

CHERRY LAUREL

6x8-in. seedlings .08 .06

*2 1/2-in. pots .14 .12

LIGUSTRUM IONANDRUM

Introduced by U. S. Government from The Orient. Foliage leaves are as small as those of Ilex crenata. Will form a perfect specimen by natural growth without shearing.

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .16

LIGUSTRUM LUCIDUM COMP.

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .16

LIGUSTRUM SIN. PENDULA

(WEEPING AMUR RIVER SOUTH PRIVET)

2 1/2-in. pots .12 .10

MAGNOLIA GRANDIFLORA

2 1/2-in. pots .16 .15

2 1/2-in. pots .18 .17

MAHONIA BEALEI

2 1/2-in. pots .22 1/2 .

2 1/2-in. pots .25 .

NANDINA DOMESTICA

3x4-in. seedlings .06 .05

2 1/2-in. pots .11 .10

2 1/2-in. pots .13 .12

3-in. pots .20 .18

PHOTINIA SERIOLATA

1 1/2x3-in. seedlings .02 1/2 .02

2 1/2-in. pots .18 .16

2 1/2-in. pots .20 .18

PITTOSPORUM TOBIRA

2 1/2-in. pots .17 .16

2 1/2-in. pots .19 .18

PODOCARPUS SINENSIS

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root..	\$0.05
Blue Hets Juniper, 6 to 10 ins., bare-root ..	.05
Burk Juniper (upright), 6 to 10 ins., bare-root ..	.14
Pfitzer Juniper, 6 to 10 ins., bare-root ..	.07
Procumbens Juniper, 4 to 6 ins., bare-root ..	.10
Hill's Dark Green American Arborvitae (Pyramidal), 6 to 8 ins. ....	.12
Rosefield's Moonlight Juniper (upright acupolium), a denser Blue Heaven. Bare-root, 6 to 8 ins. ....	.30
Rosefield's Montana Green Juniper (upright semi-dwarf acupolium. Requires no trimming), 6 to 7 ins., bare-root ..	.30
Pfitzer Juniper, plant bands .....	.16
Taxus cuspidata, 6 to 8-in. bands .....	.20
Taxus cuspidata, 6 to 8 ins., bare-root ..	.10
Taxus media hicksii, 6 to 8 ins., bare-root ..	.10

DECIDUOUS BARE-ROOT

Althaea Lucy, 6 to 8 ins. ....	.05
Blue-leaved Arctic Willow, 10 to 12 ins. ....	.06
Forsythia Arnold's Giant, 5 to 8 ins. ....	.07
Forsythia Beatrix Farrand, 6 to 10 ins. ....	.07
Forsythia Lynwood Gold, 6 to 10 ins. ....	.05
Forsythia nana compacta, 5 to 8 ins. ....	.05
Forsythia Spring Glory, 6 to 10 ins. ....	.04
Cornus stol. flav. (Gold Twig), 5 to 8 ins. ....	.05
Hydrangea A.G., 6 to 10 ins. ....	.10
Hypericum Hidcote, 6 to 10 ins. ....	.06
Hypericum kalmianum, 6 to 8 ins. ....	.05
Honeysuckle (bush), Zabel, 10 to 12 ins. ....	.05
Honeysuckle (vine), heckrottii, giant everbl., 10 to 12 ins. ....	.05
Philadelphus Bouquet Blanc, 6 to 8 ins. ....	.05
Privet, Chinese, Wayside Garden's strain, 8 to 12 ins. ....	.04
Privet, Regela, 8 to 10 ins. ....	.04
Privet, Lodense, 6 to 10 ins. ....	.05
Privet golden vicari (all yellow), 6 to 10 ins. ....	.07
Spiraea macrothyra, everbl. pink, 10 to 12 ins. ....	.05
Viburnum op. ater. (Snowball), 6 to 10 ins. ....	.10
Viburnum tomentosum, 6 to 10 ins. ....	.10
Weigela vanickii, 5 to 6 ins. ....	.06

BROADLEAFS

Euonymus carolin. Flagpole (small leaf), 8 to 10 ins. ....	.04
Euonymus patens, Owen (small leaf), 8 to 10 ins. ....	.04
Euonymus patens, Newport, medium leaf, 8 to 10 ins. ....	.04
Euonymus patens, Hochhill, medium leaf, 8 to 10 ins. ....	.04
Euonymus patens, large leaf, 8 to 10 ins. ....	.04
Euonymus coloratus, 8 to 10 ins. ....	.04
Euonymus radicans (upright Sarcocoe), 5 to 6 ins. ....	.07
Purple Leaf (Texas) Honeysuckle vine, 6 to 10 ins. ....	.05
Variegated Honeysuckle vine (Gold Net), 10 to 12 ins., 2-yr. ....	.06
Pyracantha Kaskan, 5 to 8 ins. Hardy in Iowa .....	.07
Pyracantha Islandi, 5 to 6 ins. ....	.05
Pyracantha nana, shiny small leaves. Dwarf, round, dense bush. Hardest of all. 8 to 6 ins. ....	.06

PERENNIALS

Teucrium chamaedrys, 5 to 8 ins. ....	.04
All above are outdoor plants.	
Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.	

MCININCH GREENHOUSES
St. Joseph, Mo.

LINING-OUT STOCK

	Per 100	Per 1000
800 Abies concolor, 2-yr. seedlings, 4 to 8 ins.	\$ 7.00	\$ 65.00
1,000 Acer ginnala, 1-yr. seedlings, 6 to 9 ins.	7.00	60.00
1,000 Acer ginnala, 1-yr. seedlings, 9 to 12 ins.	8.50	75.00
800 Acer ginnala, 2-yr. T, FR, 15 to 18 ins.	20.00	150.00
1,000 Acer pal. atropurpureum, 3-yr. grafts, TT, FR, 15 to 18 ins.	150.00	1400.00
4,000 Acer platanoides, 1-yr. seedlings, 4 to 6 ins.	5.50	45.00
3,000 Acer platanoides, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
2,000 Acer platanoides, 1-yr. seedlings, 9 to 12 ins.	7.50	65.00
12,000 Acer platanoides, 2-yr. T, FR, 15 to 18 ins.	16.50	130.00
12,000 Acer platanoides, 2-yr. T, FR, 18 to 24 ins.	18.50	150.00
500 Acer pseudoplatanus, 3-yr. T, FR, 4 to 5 ft.	60.00	500.00
500 Acer saccharum, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
1,000 Azalea binodigiri, 3-yr. T, beds, 4 to 6 ins.	50.00	450.00
2,000 Azalea binodigiri, 3-yr. T, beds, 6 to 9 ins.	65.00	600.00
30,000 Berberis thunbergii, 2-yr. T, FR, 9 to 12 ins.	8.50	75.00
15,000 Berberis thun. atropurpurea, 2-yr. T, FR, 9 to 12 ins.	9.50	85.00
1,400 Buxus Newport Blue, 3-yr. T, FR, 6 to 9 ins.	40.00	350.00

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300 Cercidiphyllum japonicum, 2-yr. T, FR, 18 to 24 ins.	55.00	500.00
1,000 Chamaecyparis plumosa aurea, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
1,000 Cornus florida rubra, 1-yr. grafts, beds, 9 to 12 ins.	90.00	850.00
1,000 Cornus florida rubra, 3-yr. grafts, TT, FR, 18 to 24 ins.	200.00	1750.00
20,000 Cydonia japonica, 1-yr. seedlings, 9 to 12 ins.	5.50	45.00
4,000 Eucynus vegetus, 2-yr. T, FR, 6 to 9 ins.	35.00	300.00
40,000 Fagus sylvatica, 2-yr. T, FR, grafting size, 6 to 9 ins.	15.00	140.00
4,000 Ginkgo biloba, 1-yr. seedlings, 4 to 6 ins.	8.00	75.00
1,000 Ilex compacta, 2-yr. beds, 3 to 5 ins.	40.00	350.00
1,800 Ilex convexa, 2-yr. beds, 6 to 9 ins.	40.00	350.00
1,800 Ilex Longellow, 2-yr. beds, 6 to 9 ins.	40.00	350.00
1,000 Ilex Tenaxson, 2-yr. beds, 6 to 9 ins.	40.00	350.00
1,500 Juniperus hetsi, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
1,300 Koeleruteria paniculata, 2-yr. T, FR, 12 to 15 ins.	20.00	150.00
1,000 Liquidambar styraciflua, 1-yr. seedlings, 4 to 6 ins.	7.00	65.00
5,000 Liquidambar styraciflua, 1-yr. seedlings, 6 to 9 ins.	8.50	80.00
8,000 Pieris japonica, 1-yr. T, beds, 9 to 12 ins.	15.00	100.00
10,000 Pieris japonica, 2-yr. T, beds, 9 to 12 ins.	35.00	300.00
8,000 Pieris japonica, 3-yr. T, beds, 9 to 12 ins.	45.00	400.00
5,000 Pieris japonica, FINK, 3-yr. T, beds, 9 to 12 ins.	55.00	500.00
2,000 Quercus palustris, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
1,000 Quercus palustris, 3-yr. TT, FR, 2 to 3 ft., staked	65.00	600.00
1,000 Sophora japonica, 1-yr. seedlings, 9 to 12 ins.	10.00	95.00
1,000 Sorbus aucuparia, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
1,000 Sorbus aucuparia, 2-yr. T, FR, 18 to 24 ins.	25.00	200.00
1,500 Sorbus aucuparia, 3-yr. T, FR, 2 to 3 ft.	30.00	250.00
5,000 Taxus cuspidata, upright seedlings, 2-yr., 4 to 6 ins.	12.00	90.00
1,500 Taxus cuspidata, upright seedlings, 2-yr. T, beds, 9 to 12 ins.	20.00	180.00
9,000 Taxus densiformis, 2-yr. T, beds, 9 to 12 ins.	30.00	250.00
9,000 Taxus densiformis, 3-yr. T, beds, 9 to 12 ins.	45.00	400.00
10,000 Taxus hatfieldi, 2-yr. T, beds, 9 to 12 ins.	30.00	250.00
8,000 Taxus hatfieldi, 3-yr. T, beds, 9 to 12 ins.	45.00	400.00
4,000 Thuja nigra, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
1,500 Thuja woodwardi, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
3,000 Tilia cordata, 1-yr. seedlings, beds, 4 to 6 ins.	8.50	80.00
2,000 Tilia cordata, 1-yr. seedlings, beds, 6 to 9 ins.	10.00	95.00
1,000 Tilia cordata, 1-yr. seedlings, beds, 9 to 12 ins.	12.00	110.00
1,500 Tilia cordata, 1-yr. seedlings, beds, 15 to 18 ins.	15.00	135.00
1,500 Tilia cordata, 1-yr. seedlings, beds, 18 to 24 ins.	18.00	160.00
2,000 Tsuga canadensis, 3-yr. T, beds, 6 to 9 ins.	30.00	250.00
1,000 Tsuga canadensis, 4-yr. TT, FR, 9 to 12 ins.	45.00	400.00
10,000 Viburnum latatum, 1-yr. seedlings, 9 to 12 ins.	5.00	45.00
500 Viburnum dil. macrophyllum, 1-yr. seedlings	8.50	75.00
2,000 Wistaria sinensis, 1-yr. seedlings, grafting size	5.50	45.00

T—once transplanted; FR—field row.

(These prices cancel out all previous prices.)

BOULEVARD NURSERIES

Newport, R. I.

SEEDLINGS, SURPLUS

Strong, healthy seedlings ready for transplanting, 400 to 500 per flat. Special quotation on quantity. Pieris japonica, \$15.00 per flat. Azalea, calendulacea, kaempferi and poukhanensis; Leucothoe catesbaei, \$11.00 per flat. Hybrid Rhododendrons (hardy red parent), \$8.50 per half flat. Rhod. carolinianum, \$7.50 per half flat. Shipped in flats in special cartons. Deliveries at cost.

JOHN VERMEULEN & SON, INC.

Neshaanic Station, N. J.

LINING-OUT STOCK

Per 100 Per 1000
(EACH) (EACH)

*Althaea coccinea (blue), 1-yr. grafts	\$0.25	...
*Althaea Lady Stanley (semi-double white, pink center), 1-yr. grafts .....	.25	...
*Althaea Woodbridge (large single pink), 1-yr. grafts ..	.25	...
Cotoneaster divaricata, 1-yr. seedlings .....	.12½	\$0.10
*Enkianthus campanulatus (cuttings), strong 2-yr., T, 8 to 12 ins. ....	.40	.35
*Euonymus radicans erectus, strong 3-yr. T .....	.40	.35
*Euonymus vegetus, strong 2-yr. T, heavy .....	.30	.25
*Euonymus vegetus, strong 3-yr. T, heavy .....	.40	.35
*Fagus sylvatica rivera (River's Purple Beech), 2-yr. grafts, 12 to 18 ins.	1.75	1.50
*Forsythia Beatrix Farrand (NEW), 1-yr. T, softwood cuttings .....	.30	.25
*Forsythia Lynwood Gold, 1-yr. T, softwood cuttings .....	.13	.15
*Forsythia Spring Glory, 1-yr. T, softwood cuttings .....	.18	.15
*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr. T .....	.50	.45
Ilex compacta, 2-yr. T .....	.40	.35
Ilex glabra compacta, 2-yr. T .....	.40	.35
Ilex latifolia, 2-yr. T .....	.40	.35
Ilex rotundifolia, 2-yr. T .....	.40	.35
Juniper, Andorra, 3-yr. T ..	.40	.35
Juniperus hetsi, 2-yr. T ..	.40	.35
Juniperus pfitzeriana glauca, 2-yr. T, from cuttings ..	.40	.35
*Leucothoe catesbaei, strong 3-yr. T .....	.40	.35
*Pieris japonica (Andromeda japonica), 3-yr. T, 9 to 12 ins. ....	.80	.45
Prunus maritima (Beach Plum), 1-yr. adigs, 12 to 18 ins. ....	.15	.10
Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings .....	.10	.07½
Rhododendron virginale seedlings, 3-yr., TT, 8 to 12 ins. ....	.75	...
Taxus brevifolia (nana), 2-yr. T .....	.45	.40
Taxus cuspidata, spread-ins. 2-yr. T .....	.45	.40
Taxus intermedia, 2-yr. T ..	.45	.40
Thuja woodwardi, 2-yr. T ..	.35	...
Viburnum tomentosum (true), 1-yr. T, softwood cuttings, 8 to 12 ins. ....	.25	.20
Viburnum wrightii, 3-yr. grafts, 2 to 3 ft.	1.25	1.00
*Vitex macrophylla (true), 2-yr. bedded, 18 to 24 ins. ....	.40	.35
Weigela vanickii, 1-yr. T, softwood cuttings .....	.25	.20

ITEMS SUITABLE FOR MAIL ORDER

TRADE AND CANNING.

See other listings under Azaleas, Maples, Hellebores, Taxus and Viburnums.

C. HOOGENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

LINERS FOR FALL

AND SPRING SHIPMENT ONLY

18,000 Taxus cuspidata, 2-yr., open bedded, heavy liners, 20c.

Minimum order 250.

Please send cash with order.

LAURIENTE NURSERIES, INC.

464 Main St. Agawam, Mass.

FINER LINERS

To buy and grow only select quality plants

of the better varieties is good sound business

and profitable. Don't fail to check our

new catalog of FINER LINERS, free copy on request.

JOHN VERMEULEN & SON, INC.

Neshaanic Station, N. J.

LARGE TAXUS CAPITATA LINERS

3 and 4-yr. transplants, field-grown from cuttings, selected strain.

BULK'S NURSERIES

610 W. Montauk Hwy. Babylon, N. Y.

HEAVY TAXUS TRANSPLANTS

AND CUTTINGS

See our display ad on page 24. Save 10

per cent by accepting delivery this fall.

JOHN VERMEULEN & SON, INC.

Neshaanic Station, N. J.

Finer liners since 1921

VIBURNUM LANTANA

Lining-out shrubs

5000 1-yr., 4 to 6 ins. \$ 5.00 \$45.00

700 2-yr., 8 to 12 ins. 12.00

JOHN BOS NURSERY, CLYDE, O.

LINERS OF THE BETTER KINDS

Write for price list

GULF STREAM NURSERY, INC.

Wachapreague, Va.

FLORETUM LINERS. NONE BETTER

Seedlings and transpl. Write for trade list.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

LINING-OUT STOCK—Continued

LINING-OUT STOCK			
Bedded 1-yr. in the open.			
Ilex convexa	100	1000	
Ilex rotundifolia	20.00	180.00	
Ilex hetzi	20.00	180.00	
Juniperus pfitzeriana	20.00	180.00	
Juniperus hetzi	20.00	180.00	
Taxus andersoni	20.00	175.00	
Taxus brevifolia	20.00	175.00	
Taxus capitata, cutting-grown	25.00	225.00	
Taxus capitata Adams, cutting-grown	25.00	225.00	
Taxus canadensis stricta	16.00	150.00	
Taxus cuspidata	17.50	150.00	
Taxus hatfieldi	17.50	150.00	
Taxus hunnewelliana	17.50	150.00	
Taxus hicksii	17.50	150.00	
Taxus intermedia	17.50	150.00	
Taxus henryi	20.00	175.00	
Taxus densaformis	20.00	175.00	
Taxus vermeulenii	17.50	150.00	
Taxus wardi	17.50	150.00	
Taxus Moon's columnaris	20.00	175.00	
Taxus brownii	17.50	150.00	
2-yr. bedded in the open.			
Ilex convexa, 6 to 9 ins.	\$25.00	\$200.00	
Ilex rotundifolia, 6 to 9 ins.	25.00	200.00	
Ilex hetzi, 6 to 9 ins.	25.00	200.00	
Taxus Adams col., 12 to 18 ins.	50.00	450.00	
Taxus Moon's col., 8 to 12 ins.	30.00	250.00	
Taxus cuspidata, 6 to 9 ins.	30.00	250.00	
Taxus hatfieldi, 6 to 9 ins.	30.00	250.00	
Taxus cuspidata comp., 6 to 9 ins.	50.00	250.00	
Taxus hunnewelliana, 6 to 9 ins.	30.00	250.00	
Taxus brownii, 6 to 9 ins.	30.00	250.00	
Taxus intermedia, 6 to 9 ins.	30.00	250.00	
TAXUS CAPITATA, SEEDLING-GROWN.			
1-yr. seedlings	100	1000	10,000
2-yr. seedlings	\$ 6.00	\$ 50.00	\$ 450.00
3-yr. seedlings	10.00	90.00	750.00
4-yr. seedlings	17.50	150.00	1250.00
planted, 8 to 10 ins.	30.00	250.00	2250.00
CORNUS FLORIDA (WHITE DOGWOOD)			
Seedlings	100	1000	10,000
1-yr., No. 1 grade	\$ 6.00	\$ 50.00	\$ 450.00
1-yr., No. 2 grade	5.00	40.00	350.00
1-yr., No. 3 grade	4.00	30.00	250.00
2-yr., No. 1 grade	12.50	100.00	900.00
2-yr., No. 2 grade	10.00	90.00	750.00
Special prices on large quantities.			
Full list on demand.			

VERKADE'S NURSERIES, WAYNE, N. J.

ROOTED CUTTINGS

This STOCK can be shipped either in the fall or spring season.

	Each	100	1000
Aralia pentaphylla, 1-yr., 12 ins.	\$0.10	\$10.00	\$0.08
Berberis menziesii, 1-yr., 10 ins.	.10	.09	
Cotoneaster divaricata, 1-yr., 10 ins.	.12	.10	
Cotoneaster apiculata, 1-yr., 8 ins.	.12	.10	
Cotoneaster adpressa, 1-yr., 8 ins.	.12	.10	
Cotoneaster wardi, 1-yr., 10 ins.	.12	.10	
Caryopteris Blue Mist, 1-yr., 10 ins.	.10	.08	
Deutzia gracilis, 1-yr., 12 ins.	.10	.08	
Deutzia lemoinei, 1-yr., 12 ins.	.10	.08	
Deutzia gracilis rosea, 1-yr., 12 ins.	.10	.08	
Cydonia jap. rubra, 1-yr., 10 ins.	.12	.10	
Clethra alnifolia, 1-yr., 8 ins.	.10	.08	
Euonymus algeiricus, 1-yr., 10 ins.	.10	.08	
Euonymus alatus, 1-yr., 8 ins.	.12	.10	
Euonymus a. compactus, 1-yr., 8 ins.	.12	.10	
Euonymus coloratus, 1-yr., 10 ins.	.10	.08	
Euonymus erectus, 1-yr., 10 ins.	.10	.08	
Euonymus Silver Edge, 1-yr., 5 ins.	.12	.10	
Forsythia Beidermann, 1-yr., 6 ins.	.10	.08	
Hypericum Hidcote, 1-yr., 10 ins.	.10	.08	
Hydrangea A. G., 1-yr., 10 ins.	.10	.08	
Kolkwitzia amabilis, 1-yr., 8 ins.	.12	.10	
Ligustrum ibota aureum, 1-yr., 8 ins.	.10	.08	
Magnolia soulangiana, 1-yr., 8 ins.	.12	.10	
Philadelphus aureus, 1-yr., 8 ins.	.12	.10	
Potentilla K. Dykes, 1-yr., 8 ins.	.12	.10	
Potentilla Gold Drop, 1-yr., 10 ins.	.12	.10	
Ribes alpinum, 1-yr., 8 ins.	.12	.10	
Spiraea jap. coccinea, 1-yr., 12 ins.	.10	.08	
Viburnum opulus nanum, 1-yr., 6 ins.	.14	.12	
Viburnum tomentosum, 1-yr., 12 ins.	.10	.08	
Viburnum latanaphyllum, 1-yr., 10 ins.	.18	.16	
Viburnum lentago, 1-yr., 12 ins.	.14	.12	
Viburnum dilatatum, 1-yr., 12 ins.	.14	.12	
Viburnum dentatum, 1-yr., 12 ins.	.12	.10	
Viburnum burkwoodii, 1-yr., 10 ins.	.18	.16	
Viburnum americanum, 1-yr., 10 ins.	.10	.08	
Viburnum setigerum, 1-yr., 12 ins.	.14	.12	
Viburnum sterile, 1-yr., 10 ins.	.12	.10	
Weigela purpurea, 1-yr., 8 ins.	.14	.12	
Weigela, var. leaf, 1-yr., 12 ins.	.12	.10	

CHAMPION NURSERIES, PERRY, O.

LINING-OUT STOCK

	Per 100	Per 1000
Taxus, hatfieldi, 2-yr., T.		
10 to 12 ins.	\$30.00	\$250.00
cuspidata, 2-yr., T.		
12 to 15 ins.	30.00	250.00
hicksii, 2-yr., T.	30.00	250.00
densaformis, 2-yr., T.		
12 to 15 ins.	30.00	250.00
Andromeda (Pieris japonica)		
1-yr., T.	10.00	85.00
2-yr., T.	25.00	200.00
3-yr., T.	35.00	300.00

SOWAMS NURSERY, BARRINGTON, R. I.

LINING-OUT STOCK

Strong 1 and 2-yr. shrubs, suitable for mail order and canning.	100	1000
*Coturnus florida, 1-yr., 18 to 24 ins.	\$ 8.00	\$ 75.00
Cotoneaster acutifolia, 1-yr.		
seedlings, 15 to 18 ins.	10.00	90.00
*Cotoneaster acutifolia, 2-yr.		
transplants, 15 to 18 ins.	12.00	100.00
Cotoneaster divaricata, 1-yr.		
seedlings, 18 to 24 ins.	10.00	90.00
Cotoneaster horizontalis, 2 1/4-in.		
seedlings, 15 to 18 ins.	18.00	150.00
*Ilex verticillata, 2-yr.		
12 to 15 ins.	9.00	80.00
*Tilia cordata, 1-yr. seedlings,		
18 to 24 ins.	12.00	100.00
*Viburnum americanum, 2-yr.		
transplants, 20 to 24 ins.	15.00	125.00
*Viburnum carlesii, 1-yr. seed-		
lings, 15 to 18 ins.	22.50	200.00
*Viburnum dilatatum, 1-yr.		
seedlings, 15 to 18 ins.	12.00	100.00
*Physocarpus aureus, hardwood		
cuttings, 18 to 24 ins.	10.00	90.00
*Salix gracilistylis, hardwood cut-		
tings, 2 to 3 ft.	12.00	100.00
*Tamarix Summer Glow, hardwood		
cuttings, 18 to 24 ins.	18.00	150.00
*Weigela Eva Rathke, hardwood		
cuttings, 24 to 26 ins.	15.00	125.00
*Weigela floribunda, hardwood		
cuttings, 24 to 26 ins.	10.00	90.00
Weigela vanhecke, hardwood cut-		
tings, 24 to 26 ins.	15.00	125.00
*Deutzia gracilis, 2-yr.		
transplants, 8 to 10 ins.	12.00	100.00
*Forsythia B. Farrant, 2-yr.		
transplants, 18 to 24 ins.	30.00	250.00
*Forsythia Lynwood Gold, 2-yr.		
transplants, 15 to 18 ins.	22.00	200.00
Physocarpus monogynus, 2-yr.		
transplants, 15 to 18 ins.	12.00	100.00
*Spiraea thunbergii, 2-yr. trans-		
plants, 10 to 12 ins.	12.00	100.00
*Items suitable for mail order and can-		
nning. Other items for canning only.		
Write for complete PRICE LIST.		
GULF STREAM NURSERY, INC.		
Wachapreague, Va.		

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/4-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordii, 8 to 10 ins.	\$10.00
Ilex cornuta burfordii, 6 to 8 ins.	8.00
Ilex cornuta femina, 8 to 10 ins.	10.00
Ilex cornuta femina, 6 to 8 ins.	8.00
Ilex opaca femina (American Holly), 8 to 10 ins.	25.00
Ilex opaca femina, 6 to 8 ins.	20.00
Ilex opaca howardii, 6 to 8 ins.	14.00
Ilex opaca East Palatka, 6 to 8 ins.	12.00
Ilex crenata rotundifolia, 10 to 12 ins.	12.00
Ilex crenata rotundifolia, 8 to 10 ins.	10.00
Ilex crenata rotundifolia, 6 to 8 ins.	8.00
Ilex crenata bullata convexa, 6 to 8 ins.	12.00
Ilex crenata bullata convexa, 4 to 6 ins.	10.00
Ilex crenata microphylla, 6 to 8 ins.	12.00
Euonymus radicans, 8 to 10 ins.	8.00
Euonymus radicans, 6 to 8 ins.	6.00
Ligustrum lucidum compactum	
(Griffing's black wax), 8 to 10 ins.	12.00
Cleyera japonica, 8 to 10 ins.	12.00
Pyracantha yunnanensis, 8 to 10 ins.	16.00
Buxus harlandi, 4 to 6 ins.	8.00
Buxus japonica, 4 to 6 ins.	8.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, ensuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

HEAVY LINERS FROM FIELD BEDS

	Per 100
Taxus cuspidata, 10 to 15 ins., 4-yr.	\$55.00
TTT	
10 to 12 ins., 3-yr.	40.00
Taxus capitata, 10 to 12 ins., 3-yr.	50.00
8 to 10 ins., 2-yr.	40.00
Taxus brownii, 10 to 12 ins., 3-yr.	50.00
Taxus hicksii, 8 to 12 ins., 3-yr.	45.00
Taxus hatfieldi, 8 to 12 ins., 3-yr.	45.00
Taxus hunnewelliana, 10 to 12 ins., 3-yr.	50.00
Euonymus vegetus, 10 to 15 ins., branched	35.00
Ribes alpinum, 10 to 15 ins., branched	15.00

STROHL'S NURSERY

5204 St. Joe Rd. Fort Wayne, Ind.
Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.
Male Ginkgo biloba, from cuttings.
Please see complete list on page 69.
Templeton, Phytotektor, Winchester, Tenn.

LINING-OUT STOCK

We are now booking orders for fall and winter delivery of the following heavily rooted liners.

Buxus japonica	Ilex rotundifolia
Dwarf Euonymus	Viburnum
Gardenia fortunei	odoratissimum
Gardenia radicans	Ilex burfordii
Gardenia vetchii	Ligustrum lucidum
Gardenia stricta nana	Ilex East Palatka

Prices of above lining-out stock:

	Per 100	Per 1000
3 to 5 ins., rooted cuttings	\$ 5.00	\$ 40.00
4 to 6 ins., transplants	6.00	50.00
6 to 8 ins., transplants	10.00	80.00
8 to 12 ins., transplants	12.50	100.00

Prices of above lining-out stock:

	Per 100	Per 1000
3 to 5 ins., rooted cuttings	\$ 5.00	\$ 40.00
4 to 6 ins., transplants	8.00	75.00
6 to 8 ins., transplants	12.50	100.00
8 to 12 ins., transplants	15.00	125.00

Book your orders early, for complete selection.

FLOWERWOOD NURSERY, INC.

P. O. Box 155 Cairo, Ga.

Phone 2-4021 or write.

LINING-OUT STOCK

Pfitzer Juniper, 6 to 8 ins. 1-yr.	\$0.06
8 to 12 ins., 1-yr. field	.12
10 to 15 ins., 2-yr. field	.16
Ilex rotundifolia, rooted cuttings	.03
Ilex burfordii, rooted cuttings	.03
Nandina, seedlings (November 1)	1.00
Nandina seeds, per lb. (December 1)	.02
Ligustrum lucidum, rooted cuttings	.02
Euonymus patens, rooted cuttings	.02
Abelia grandiflora, 8 to 12 ins., 1-yr. field	.04
Old English Boxwood, 2 to 3 ins., sand	.04
5 to 6 ins., sand	.08
English Ivy (big-leaved), rooted cuttings	.02

Your patronage always appreciated.

E. F. DuBOISE NURSERY

Huntsville, Ala.

TAXUS CUSPIDATA CAPITATA

FROM SEED
5-yr., TTT, grown in nursery rows, 9 to 12 strong plants, 100, \$60.00; 1000, \$500.00. 4-yr., TT, 6 to 9, 100, \$40.00; 1000, \$300.00. \$5.00 samples sent upon request or come and see it. None better grown.

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurserymen

TREE PEONY SEEDLINGS

Grown from our selected Japanese varieties. 2-yr. \$2.50 per 10, \$20.00 per 100
3-yr. 4.00 per 10, 35.00 per 100
Packing free for cash with order.

TOICHI DOMOTO

26521 Whitman St. Hayward, Calif.

Flowering Quince liners.

Please see complete list on page 69.

Templeton, Phytotektor, Winchester, Tenn.

MAGNOLIAS

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2 1/4-in. or removed, \$15.00 per 100. 1-yr. seedlings for spring 1959, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.

Harwell Nursery, Van Buren, Ark.

MAPLES

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	\$ 3.00	\$2.50
8 to 10 ft., 1 to 1 1/4-in.	4.40	3.50
9 to 11 ft., 1 1/4 to 1 1/2-in.	6.00	5.00
10 to 12 ft., 1 1/2 to 1 3/4-in.	8.00	7.00
11 to 13 ft., 1 3/4 to 2-in.	11.00	9.00

PRINCETON NURSERIES

Princeton, N. J.

LARGE NORWAY MAPLES

9 to 14 ins., 3X.
Located at Wethersfield High School, Kewanee, Ill.

You dig and move, \$75.00 to \$100.00 each.

For further information, contact

THE HOME NURSERY

LaFayette, Ill.

SILVER MAPLE

5 to 6 ft.	\$0.40
6 to 8 ft.	.50
8 to 10 ft.	.75
10 to 12 ft.	1.25

CRIMSON DALE NURSERY

Winchester, Tenn.

NORWAY MAPLES

Nursery-grown. Well headed.
2 to 2 1/4-in. cal. \$10.00
2 1/2 to 3-in. cal. 12.00
3 to 3 1/2-in. cal. 14.00
Bustleton Pike Feasterville, Pa.

JAPANESE RED MAPLE SEEDLINGS
(ACER PALMATUM ATROPURPUREUM)

Carefully selected, finest red Maple.
Well-hardened from open field beds, liners
and heavy potting grades in large quantities.

	Each per 100	Each 2500 more
1-yr. (all red), 8 to 10 ins.	\$0.22	\$0.20
2-yr., X, light branched		
8 to 10 ins. ....	.33	.30
10 to 12 ins. ....	.38	.35
12 to 15 ins. ....	.46	.42
2-yr., X, heavy grade, branched transplants		
6 to 8 ins.	\$0.43	\$0.40
8 to 10 ins. ....	.48	.45
10 to 12 ins. ....	.55	.50
12 to 15 ins. ....	.65	.60
3-yr., XX, branched transplants, ready for 6-in. pots (available)		
12 to 15 ins.	\$0.80	\$0.75
15 to 18 ins. ....	.95	.90
4 and 5-yr., well-branched, heavy grade		
10 to 12 ins.	\$1.00	\$0.95
12 to 15 ins.	1.25	1.18
15 to 18 ins.	1.60	1.50
18 to 21 ins.	2.00	1.90
21 to 24 ins.	2.75	2.60
Shipped dormant. Packed in sphagnum. Late fall or early spring.		

2 per cent deposit will reserve your order.
HUBBS NURSERIES

Route 130 Riverton, N. J.
Specializing in Japanese Maple seedlings.

RED JAPANESE MAPLE

Your inspection of the plants in foliage
is cordially invited.

	Per 100	Per 1000
(EACH) (EACH)		
*Acer palmatum atropurpureum, selected types, strong 2-yr. grafts, 12 to 18 ins.	\$1.50	\$1.25
*Acer palmatum atropur- pureum, strong 3-yr. grafts. 2.00		
*Acer palmatum atropurpureum BLOODGOOD, 2-yr. grafts, 12 to 18 ins.	1.75	
*Acer palmatum atropurpureum OSHI BENI, 2-yr. grafts, 12 to 18 ins.	1.50	
*Acer palmatum atropurpureum OSHI BENI, 3-yr. grafts .. 2.00		
*ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING C. HOOGENDOORN, NURSERYMAN 413 Turner Rd. Newport, R. I.		

SILVER MAPLE

Nursery-grown, transplanted.

	Per 30-100	Per 1000
1 to 1 1/2-in. cal.	\$1.75	\$1.50
1 1/2 to 2-in. cal.	2.25	1.90
2 to 2 1/2-in. cal.	2.75	2.50
2 1/2 to 3-in. cal.	3.50	

Wholesale list on request.

R. BRUMOND SMITH NURSERY
R. R. 2, Box 198 Muncie, Ind.

Phone AT 2-5144

NORWAY MAPLE

2-yr.-old lining-out stock.

	Per 100	Per 1000
2 to 3 ft.	\$8.00	\$70.00
18 to 24 ins.	7.00	60.00
12 to 18 ins.	6.00	50.00
9 to 12 ins.	5.00	40.00

Special price on 5000 rate.

SANDY NURSERY
R. 1, Box 1162 Sandy, Ore.

COLLECTED ACER

RUBRUM AND SACCHARUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

More customers for you!
Over 9,500 subscribers, all active buyers,
see your ad in the American Nurseryman.

PACHYSANDRAS

PACHYSANDRAS

Strong rooted cuttings, ready now.

\$4.50 per 100.

\$40.00 per 1000.

\$37.50 per 1000 for 5000 or over.

Shipped prepaid.

Check with order.

No C.O.D.

TOWN & COUNTRY
4202 Fordleigh Rd. Baltimore 15, Md.

PACHYSANDRA TERMINALIS

Per 100 Per 1000

1-yr. plants	\$ 5.00	\$42.50
2 1/2-in. pot-grown plants	10.50	95.00

HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil
frames with light shade. First-class stock,
\$6.00 per 100, \$50.00 per 1000; \$47.50 per
1000 for 5000 or more, including good pack-
ing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00
per 1000.

DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS

1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

PEONIES

PEONIES

Strong 3 to 5-eye divisions from young
plants. Deliveries being made now. Packing
free for cash with order, otherwise

	at cost	10 100
Canari, sulphur-white	\$3.50	\$25
Duc de Cazez, carmine-red, rose center	3.50	30
Duchesse de Nemours, ivory-white.	3.50	30
Duchesse d'Orleans, soft pink.	3.50	25
Duke of Wellington, pure white.	3.50	30
Edules Superba, excellent deep pink	2.50	25
Felix Crousse, ruby-red	4.00	35
Festiva Maxima, white, center fleeced red	4.00	35
Fontenelle, excellent medium dark red	4.00	35
Fragrans, medium to dark rose pink	3.50	30
Francois Ortegat, crimson	4.00	30
Karl Rosfeld, velvety dark crimson	4.50	40
La Perle, light old-rose pink	4.00	35
Lillian Wild, very large, flesh to white	4.50	40
Mme. Ducl, bright silvery pink.	4.00	35
Mme. de Verneville, very fragrant white	4.00	25
Marguerite Gerard, hydrangea-pink	4.00	35
Masterpiece, large brilliant cerise.	4.00	35
Mons. Jules Elie, large pink	4.00	35
Ozark Beauty, late radiant pink ..	4.00	30
Queen Victoria, flesh-white, cream center	3.50	25
Queen Emma, large satiny pink.	3.50	30
Red Rocket, bright deep red.	4.50	40
Sarah Bernhard, appleblossompink	5.00	40
Umbellata rosea, violet rose-pink.	4.00	35
Venus, large hydrangea-pink	4.00	35
Officialis rubra, early bright red.	7.00	60
Mixed Peonies, grown mixed.	2.50	20
Pink Peonies, to color, not named.	3.00	25
White Peonies, to color, not named.	3.00	25
Red Peonies, to color, not named.	3.00	25
Single Red Peony, single flowering.	4.00	30

Peony liners available. Write for quotations.
Rate: 50 of a variety at 10 rate; 25
of a variety at 100 rate.

Send for our complete list of Peonies. Irises
and Hemerocallis.

SARCOXIE NURSERIES PEONY FIELDS
Wild Ros. Nursery Co.
Phone 43 Sarcoxie, Mo.

PEONIES

Healthy 3 to 5 divisions.

	Per 10	Per 100
AURORA, white	\$3.50	\$30.00
DAUBENTON, light pink	4.00	35.00
DUKE OF CLARENCE, rose.	4.00	35.00
GRANDIFLORA NIVEA PLENA, white	4.00	35.00
AUGUSTE LEMONIER, bright red	4.00	35.00
ETTA, pink	4.00	35.00
MME. DE VERNEVILLE, white	4.00	35.00
FELIX CROUSSE, red	4.00	35.00
VENUS, shell-pink	3.50	30.00
FESTIVA MAXIMA, white	4.00	35.00
EDULIS SUPERBA, pink	4.00	35.00
GENERAL BERTRAND, pink.	3.50	30.00
COURONNE D'OR, white	4.00	35.00
QUEEN VICTORIA, white	3.50	30.00
THE MOOR, purple	4.00	35.00
CLARA BARTON, white	4.00	35.00
PINK PEONIES, not named ..	3.00	25.00
WHITE PEONIES, not named ..	3.00	25.00
RED PEONIES, not named ..	3.00	25.00
PARKER'S PEONY FARM AND NURSERY Fayetteville, N. Y.		

PEONIES

Adolph Roussau, Baroness Schroeder,
Duchesse de Nemours, Festiva Maxima, Sarah
Bernhardt, Lady Alex. Duff, Marie Le-
moine, Mons. Jules Elie, Reine Hortense.

2-yr.-old whole clumps, not divided. 6
eyes and up, \$75.00 per 100, \$700.00 per 1000;
divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00
per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

PHLOX

PHLOX SUBULATA (CREEPING PHLOX)

50,000 field plants, large divisions.

Red Wing, large red blooms	
Amoena, large, clear pink	
Alba, best white	
Admiration, pink, white eye	
Beauty, large rose	
Astro, deep orchid-rose	
Moerheim, deep salmon-pink	
Blue Hills, heavenly blue	
Rosea, rose	
Butterfly, violet blush, purple eye	
Gloria, lavender, darker eye	
Crimson Beauty, brilliant red	
Sensation, pure pink, dark eye	
Continual Everbloomer, pink, large dark eye	
New Wonder, continual bloomer, white, pink eye	
Pink Beauty, mauve-pink, tiny white eye	
Lilacina, blue, delicate eye	
\$9.00 per 100, \$85.00 per 1000.	
SPRING ACRES NURSERY	
Route 1	Morris, Ga.

If interested in Phlox and other peren-
nials, please send for list.

HENRY LE POIRE, R. 2, Zeeland, Mich.

PHLOX IMPORTS

New, Symons-Jeune strain Phlox decussata.
All fragrant.

	Each, 25	26-99	100
50 Cool of the Evening, lavender-blue	\$0.60		
100 Endurance, deep sal- orange .....	.35		
100 Exquisite, pink, crim- son eye .....	.50		
350 Fairlyland, pale pink. ....	.35	\$0.30	
400 Fairy's Petticoat, huge, pale pink .....	.35	.30	
100 Joan, dwarf scarlet .....	.30		
400 Lady Violet, violet- purple .....	.35	.30	
1100 Lilac Time, vigorous lilac .....	.30	.25	\$0.20
150 Little Lovely, dwarf lav. 350 Queen of Tonga, late salmon-rose .....	.35	.30	
200 Silver Lining, rose-red. ....	.30	.25	
500 Windsor, salmon-red. ....	.30	.25	.20
100 Red Indian, vivid wine- crimson .....	.30		
Other varieties:			
200 Miss Copyn, pink .....	.25	.20	
300 Leo Schlageter, red .....	.25	.20	

All No. 1 plants, ready for immediate
shipment. Terms: Cash with order. Please
do not order less than 25 of a variety.

WHITE FLOWER FARM
Litchfield, Conn.

PHLOX SUBULATA

OR CREEPING PHLOX

Alba, pure white	
Astro, deep orchid-rose	
Atropurpurea, wine-red	
Butterfly, lilac blush, showy purple eye	
Crimson Beauty, brilliant cyclamen-red	
Red Wing, large glowing red flowers	
Sensation, lovely pink, vivid red eye	
Transplants, \$9.50 per 100, \$90.00 per 1000.	
Liners, \$5.00 per 100, \$45.00 per 1000.	
Transportation charges prepaid by us.	
250 or more of same variety at 1000 rate.	
Terms: Cash with order.	

TANGLEWOOD FARM
P. O. Box 336-N Clinton, S. C.

Phone 1060

HARDY PHLOX

Ask for our new listing on field-grown garden
Phlox and Phlox subulata (Creeping
Phlox). If interested in 5000 or more plants,
ask for our special quantity discount.

WALTERS GARDENS
R. R. 2 Zeeland, Mich.

PIERIS

PIERIS JAPONICA

Choice liners

	Each
from open field blocks.	
4 to 6	\$0.20
6 to 8 .....	.30
8 to 12 .....	.40
10 per cent discount per 1000.	

1958 FALL ONLY.

3 to 6, 1-yr., transplants15 |

Well-branched. Good color.
ECKHART NURSERIES

14 Toppa Blvd. Newport, R. I.

Pieris Japonica (Jap. Andromeda), strong
rooted seedlings, 1 to 2 ins., \$6.00 per 100,
\$50.00 per 1000. 2-yr. transplants, 6 to 9
ins., \$40.00 per 100, \$350.00 per 1000. Heavy
field-row stock, 3 yrs. old, 9 to 12 ins., ready
for mail order, canning or sales yard; heavy
bare-root, \$1.00 each, per 100; 85c each,
per 1000; 65c each, per 5000 and up. No
packing charges.

Cedarhurst Nurseries, Inc., 3044 Pawtucket
Ave., East Providence, R. I.

ANDROMEDA

(PIERIS JAPONICA)

One of the most beautiful broad-leaved
Evergreens.

	Per 100	Per 1000
2 to 3-in., 1-yr., T.	\$ 8.00	\$ 75.00
3 to 5-in., 1-yr., T.	14.00	120.00
6 to 8-in., 2-yr., TT.	20.00	190.00

PLANE VIEW NURSERY
1355 W. Main Rd. Newport, R. I.

Pieris floribunda, field-row, 3 yrs. old, 9
ins., real nice bushy plants, ready for mail
order or sales yard; bare-root, \$1.00 each,
per 100; 85c each, per 1000.

Cedarhurst Nurseries, Inc., 3044 Pawtucket
Ave., East Providence, R. I.

If you don't find it listed here
try a Want Ad in the next issue
of the American Nurseryman.

PRIVET

CALIFORNIA PRIVET

	1000
18 to 24 ins.	\$ 80.00
2 to 3 ft.	100.00
3 to 4 ft.	120.00

Cash, packing free.

SCHWARTZ NURSERIES
2177 Fruitville Pike Lancaster, Pa.

Thousands of Amur River North Privet.

	Per 100	Per 1000
18 to 24 ins.	\$3.00	\$25.00
2 to 3 ft.	4.00	30.00
3 to 4 ft.	5.00	40.00

Immediate shipment. Satisfaction guaran-
teed. Robinson Nursery Co., Greenville, Ga.

RHODODENDRONS

FIFTY THOUSAND
OWN-ROOT
RHODODENDRONS

A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.

WELLS NURSERY
P. O. Box 141 Red Bank, N. J.
Phone SHadyside 1-0180

RHODODENDRONS
HYBRID RHODODENDRONS

Landscape sizes
Different colors

PARMENTIER'S ROSES
Grady St., Bayport, L. I., N. Y.
Phone Bayport 8-0811

HYBRID RHODODENDRONS

We have a beautiful selection of extra heavy plants in various sizes. Heavily budded. Various colors. Special prices on fall and spring orders placed now.

RICKERT NURSERIES
Box 120 Morristown, Pa.

100,000 hybrid Rhododendrons, 2000 varieties. Liners, 12 to 15 ins., \$1.20 up; 15 to 18 ins., \$2.95. Bigger sizes up to 3 ft. Also all other nursery items.
Kordus Nursery, Deer Park Ave., R. 4, Box 152, Huntington, N. Y.

RHODODENDRON MAXIMUM
Nursery-grown and collected. 2 to 7 ft. high. Well developed and branched plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

ROSEBUSHES

MINIATURE ROSES

Beautiful little darlings like miniature Hybrid Teas, seldom over 10 ins. tall. The plants we sell are own-root from 2½-in. pots.

Variety	Per 10	Per 100
Juliette, large crimson	\$4.00	\$35.00
Midjet (pat. 466), rose-red	4.50	40.00
Tom Thumb (pat. 169), crimson	4.50	40.00
Ferla d'Alcanada, ruby-red	4.00	35.00
Peggy Grant, P.B.R., rose	4.00	35.00
Pink Joy (pat. 1378), pink, gold center	4.50	40.00
Patty Lou (pat. 1335), silvery pink	4.50	40.00
Pixie (pat. 408), tiny white	4.50	40.00
White Baby Star, white	4.00	35.00
Snowflakes, white	4.00	35.00
Presumida, like Tallman	4.00	35.00
Jackie, gold and cream	4.50	40.00
Baby Gold Star, gold	5.00	45.00

SPRING HILL NURSERIES CO.
Dept. AN-12 Tipp City, O.

ROSEBUSHES

Big, thrifty plants, guaranteed to please your most critical customers.

Priced to meet competition.
Shipped when you need them.
Standard and patent.

Bare-root and prepackaged.
A wide assortment to choose from.
Write, phone or wire for price list, or better still come see for yourself.

MARTIN'S ROSE NURSERY
P. O. Box 155 Phone UL 9-2191 Arp, Tex.

ROSEBUSHES

2-YR. PLANTS

Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES

D. L. Thompson, Owner
Dept. AN Tyler, Tex.

ROSES

The BEST of the old, the NEWEST of the new.
A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully handled and generously graded. Catalogs now available. Buy the best. "BUY KLYN'S"

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

FOR SUPERIOR ROSEBUSHES
SEE "HAND the Rosebush Man." The best source of quality-grown Rosebushes at competitive prices. Satisfaction guaranteed.
Standard and patented varieties.

Bare-root Roses (ind. tagged, optional).
Packaged Roses (non-waxed and waxed).
WRITE FOR 1958-59 PRICE LIST.

HAND ROSE FARMS
Dallas Hwy. LYric 4-9088 Tyler, Tex.

ROSES

Our own field-grown Rosebushes for early winter. Standard var. No. 1, 50c; No. 1½, 40c. Patented var. available at fixed prices. Budded on seedlings with a fine root system. Ideal for potting or home plantings.

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

ROSES ROSES ROSES

Dissatisfied with your Rose source?

Losing customers?

Ready to throw in the towel?

Cheer up and smile,

It'll be worth your while

To write for our list today.

No order too large or too small.

We personally take care of them all.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

FIELD-GROWN ROSEBUSHES

FINEST QUALITY.

Hybrid Teas, floribundas, polyanthas and climbers.

Price and variety list on request.

Box 625 Lindale, Tex.

Roses, finest quality plants, reasonable.

112 varieties, standard and patented. Write.

Tate Nursery, R. 3, Tyler, Tex.

ROSE STOCK

MULTIFLORA ROSE

Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
3 to 8 mm.	12 to 24 ins.	22.50
5 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seedlings grown especially well understock. Nemato-free. Expertly graded to suit the most particular.

4 to 6 mm. \$27.50 per 1000

2 to 4 mm. 17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this fall, winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost. 10 per cent off for fall delivery, in lots of 10,000 or more.

FARM LANDSCAPE CO.

Route 3 Urbana, Ill.

MULTIFLORA ROSE

Special, selected, thorny multiflora for budding. Tops are cut back to approximately

Caliper	Per 1000
6 to 8 mm.	\$35.00
4 to 6 mm.	27.50
3 to 4 mm.	17.50
2 to 3 mm.	12.50

DANEGGER'S HI-WAY NURSERY, INC.

Box 336 Milford, Del.

Rosa multiflora japonica, thornless: the best stock for budding purposes. Will not injure playing children.

30,000 10-in. cuttings, handmade, \$3.00 per 100, \$10.00 per 1000; 2-yr., 18 to 24 ins., grown from cuttings not from seeds. Well-rooted, well-branched, \$8.00 per 100, \$60.00 per 1000.

Finger Lakes Nurseries, Geneva, N. Y.

SEEDS

SHRUB AND TREE SEEDS

For nurserymen, conservation, Christmas tree growers and others.

Write for wholesale price list.

WOODLOT SEED CO.

Norway, Mich.

Established 1936.

BALSAM FIR SEED

1957 crop Southern Balsam Fir (Abies fraseri), from cold storage. 1958 crop a total failure.

\$15.00 per lb., in lots of 5 lbs. or less.

Larger quantities at a discount.

Cash with order.

COMMERCIAL FORESTERS, INC.

P. O. Box 1274 Asheville, N. C.

Seeds: Ligustrum, japonicum, lucidum, amurense, also Nandina domestica, \$1.00 per lb. Cherry Laurel, lb., 75c. Chinese Chestnuts, lb., 35c. We have grown this strain for over 30 years and no blight has ever shown up. Cash. We do not ship C.O.D.
Mountville Nurseries, Mountville, Pa.

COLORADO EVERGREEN SEED

There is such a small Colorado Evergreen seed crop this year, we are unable to offer most varieties. Only Lodgepole, \$10.50 per lb. and Juniperus scopulorum, \$4.50 per lb.

WESTERN EVERGREENS

14201 W. 44th Ave., Rt. 1 Golden, Colo.

TREE PEONY SEEDS

Freshly harvested from our selected Japanese type plants.

\$7.00 per lb., postpaid.

TOICHI DOMOTO

26521 Whitman St. Hayward, Calif.

CHINESE CHESTNUTS

(Castanea mollissima)

Grown from selected stock.

Order now for fall delivery.

Expect to have several tons.

Less than 100 lbs., 35c per lb.

100 lbs. and over, 30c per lb.

KING'S NURSERY

Drawer 1431 Auburn, Ala.

SHRUBS AND TREES

ROOTED CUTTINGS, 1-YR., BEDDED

	Per 100	Per 1000
Buxus sempervirens, 4 to 6 ins.	\$10.00	\$90.00
Ilex bullata, 4 to 6 ins.	10.00	90.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Pyracantha lalandi	10.00	90.00
Chamaecyparis squarrosa veitchi, 4 to 6 ins.	12.00	100.00
Chamaecyparis pisifera aurea, 4 to 6 ins.	12.00	100.00
Chamaecyparis lusitana, 4 to 6 ins.	10.00	90.00
Juniperus hetzi, 4 to 6 ins.	12.00	100.00
Juniperus pfitzeriana, 4 to 6 ins.	12.00	100.00
Juniperus stricta	12.00	100.00
Fachysandras	4.00	35.00
Pyracantha lalandi, potted	15.00	100.00
Retinospora plumosa aurea, 6 to 8 ins.	10.00	90.00
Retinospora plumosa, 6 to 8 ins.	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	100.00
Taxus capitata, tips, 4 to 6 ins.	15.00	125.00
Taxus cuspidata, 4 to 6 ins.	12.00	100.00
Taxus hatfieldi, 4 to 6 ins.	12.00	100.00
Taxus hispida, 4 to 6 ins.	12.00	100.00
Thuja globosa, 6 to 8 ins.	12.00	100.00
Thuja pyramidalis, 4 to 6 ins.	10.00	90.00
Thuja nigra, 5 to 8 ins.	10.00	90.00

2-YR., BEDDED

Taxus cuspidata	\$25.00	\$200.00
Taxus hispida	25.00	200.00
Ilex crenata	20.00	150.00
Ilex bullata	20.00	150.00
Chamaecyparis cyano viridis, 4 to 6 ins.	20.00	150.00

1-YR. SEEDLINGS

Cornus florida	\$ 5.00	\$40.00
Taxus capitata	5.00	40.00
Chinese Chestnut, 18 to 24 ins.	10.00	75.00

2-YR. SEEDLINGS

Acer palmatum, 6 to 12 ins.	\$ 8.00	60.00
Fagus sylvatica, 8 to 12 ins.	10.00	\$90.00
Chinese Chestnut, 18 to 30 ins.	15.00	100.00
Taxus capitata, 4 to 6 ins.	7.00	60.00

3-YR. SEEDLINGS, TRANSPLANTED

Taxus capitata, 5 to 8 ins.	\$12.00	\$100.00
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4-YR. SEEDLINGS, TRANSPLANTED

Picea pungens glauca, 6 to 10 ins.	\$12.00	\$100.00
Tsuga canadensis, 5 to 8 ins.	10.00	95.00
Tsuga canadensis, 8 to 10 ins.	15.00	140.00
Tsuga canadensis, 10 to 12 ins.	20.00	190.00
Thuja occidentalis, 8 to 12 ins.	12.00	100.00
Taxus capitata, 6 to 10 ins.	15.00	100.00
Pinus strobus, 8 to 10 ins.	10.00	100.00
Leucothoe catesbaei, 2 to 12 ins.	35.00	350.00

VAN DINE NURSERY
287 Berdan Ave. Preakness, N. J.

EUONYMUS VEGETUS

Heavy, well-sheared

Bare-root, 15 to 18 ins., \$1.00.

(B&B, 35c per plant extra.)

BERBERIS THUNBERGI, 18 to 24 ins., \$35.00 per 100.

JUNIPERUS HETZI, B&B, 18 to 24 ins., \$2.50 each.

(50 or more, \$2.40 each.)

BIOTA AUREA NANA, B&B, 12 to 15 ins., \$2.00 each.

GLOBE ARBORVITAE, B&B, 12 to 15 ins., \$1.50 each.

JUNIPERUS BURKI, B&B, 3½ to 4 ft., \$4.50 each.

THE FRENCH NURSERY CO.

Since 1863 Clyde, O.

ORNAMENTAL TREES

Crab Apples, 40 varieties; 1-yr. trees and limited number 3-yr. transplants. Descriptive booklet available.

Thundercloud purple-leaved Plum, 1-yr. and 3-yr., 4 to 8 ft.

Winter King Hawthorn, fruits ornamental all winter, 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus, Ilex rotundifolia, Ilex verticillata, large plants of Magnolia soulangeana and Cornus kousa chinensis seedlings.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 489-3

Abelia grandifolia, cut back several times: real specimen plants, our choice, \$1.50. Over 5000 to select from, up to 6 ft. Elaeagnus pungens, good, bushy plants, real specimens, up to 6 ft., \$1.75. Ligustrum lucidum, 3 to 4 ft., \$1.50. Buxus sempervirens (Boxwood), up to 5 ft., some real good, some not so good, but good for landscape work.

Mountville Nurseries, Mountville, Pa.

Ilex crenata bullata, 10 to 12 ins., 80c; 12 to 15 ins., \$1.00; 15 to 18 ins., \$1.50; 18 to 24 ins., \$2.00.

Will consider bed-run price with interested parties. Azaleas, Hino, Snow, Coral Bella and crimson, 4 to 6 ins., 6 ins., 6 to 8 ins., 8 to 10 ins.

R. F. Daley & Son, Tasley, Va. (Just off Rt. 13).

FOR FALL 1958 SHIPMENT

	Per 100
500 <i>Cydonia japonica rubra</i> , 3 to 3½ ft., cutting-grown.....	\$ 50.00
500 <i>Euonymus alatus</i> , 30 to 35 ins.....	110.00
300 <i>Euonymus alatus</i> , 24 to 30 ins.....	65.00
1600 <i>Euonymus alatus compactus</i> , 18 to 24 ins.....	60.00
300 <i>Euonymus alatus compactus</i> , 15 to 18 ins.....	50.00
200 <i>Lonicera tatarica</i> , pink, 3 to 4 ft.....	40.00
700 <i>Lonicera tatarica</i> , white, 3 to 4 ft.....	40.00
300 <i>Lonicera tatarica</i> , white, 2½ to 3 ft.....	35.00
50 <i>Prunus cistena</i> (own-root), 5 to 6 ft.....	95.00
100 <i>Prunus cistena</i> (own-root), 3 to 4 ft.....	85.00
600 <i>Prunus cistena</i> (own-root), 2½ to 3 ft.....	70.00
600 <i>Philadelphus Bouquet Blanc</i> , 4 to 5 ft.....	45.00
700 <i>Philadelphus Bouquet Blanc</i> , 3 to 4 ft.....	40.00
1000 <i>Philadelphus virginialis</i> , 3 to 4 ft.....	50.00
100 <i>Viburnum lantana</i> , 5 to 6 ft.....	70.00
120 <i>Viburnum lantana</i> , 4 to 5 ft.....	60.00
150 <i>Viburnum lantana</i> , 3 to 4 ft.....	55.00
100 Willow, <i>Niobe</i> , 6 to 8 ft.....	110.00
100 Willow, <i>Wisconsin Weeping</i> , 6 to 8 ft.....	110.00

Minimum order 100 each.

FANCHER'S NURSERY, Sturtevant, Wis.

LANDSCAPE MATERIAL

<i>Acer palm. atropurpureum nigrum</i> , 2 to 2½ ft.	
<i>Berberis thunb. atropurpureum</i> , 15 to 18 ins., 18 to 24 ins.	
<i>Cornus florida rubra</i> , 3 to 4 ft.	
<i>Cotoneaster divaricata</i> , 9-in. Bird pots, 2½ to 3 ft.	
<i>Cotoneaster praecox</i> , 7-in. pots, 12 to 15 ins.	
<i>Cotoneaster horizontalis</i> , 7-in. pots, 15 to 18 ins.	
<i>Forsythia int. spectabilis</i> , 3 to 4 ft., 4 to 5 ft.	
<i>Forsythia Lynwood Gold</i> , heavy, 4 to 5 ft., 5 to 6 ft.	
<i>Forsythia Spring Glory</i> , heavy, 4 to 5 ft., 5 to 6 ft.	
<i>Leucostemum ovalifolium</i> , 3-yr., 4 to 5 ft.	
<i>Salix niobe</i> , 10 to 12 ft., 1½ to 1¾-in. cal.	
<i>Weigela vaniceki</i> , extra heavy, 5 to 6 ft.	
<i>Weigela rosea</i> , extra heavy, 5 to 6 ft.	
<i>Forsythia Lynwood Gold</i> , 2-yr., hardwood cuttings, 2 to 3 ft., 3 to 4 ft.	
<i>Forsythia Spring Glory</i> , 2-yr., hardwood cuttings, 2 to 3 ft., 3 to 4 ft.	
<i>Weigela vaniceki</i> , 2-yr., hardwood cuttings, 2 to 3 ft., 3 to 4 ft.	

Prices on request.

RAMP NURSERY SALES, INC.
233 Hempstead Ave., West Hempstead, N. Y.
Phone IVanhoe 6-3363

ARBORVITAE

American, 2½ to 4½ ft., \$1.75 to \$2.50.	
Baker, 2 to 3½ ft., \$1.50 to \$2.00.	
Elegantissima, 2 to 3½ ft., \$1.75 to \$2.25.	
Globe, 1 to 2½ ft., \$1.50 to \$2.00.	
Golden, 1½ to 3 ft., \$1.50 to \$2.00.	
Biota aurea nana, 1 to 2½ ft., \$1.50 to \$2.00.	

JUNIPERS

Andorra, 1 to 2½ ft., \$1.75 to \$2.25.	
Burk, 2 to 3½ ft., \$1.75 to \$2.25.	
Irish, 2½ to 4 ft., \$1.75 to \$2.25.	
Swedish, 2½ to 4 ft., \$1.75 to \$2.25.	
Pfitzer, 1 to 3 ft., \$1.75 to \$2.50.	
Golden Tip, 1 to 3 ft., \$1.75 to \$2.50.	
Hetz (glauca), 1 to 2½ ft., \$1.75 to \$2.25.	
Armstrong, dwarf, 1 to 2½ ft., \$2.00 to \$2.50.	
Blue, 1 to 2½ ft., \$1.75 to \$2.25.	
Von Ehron, 1 to 2½ ft., \$1.75 to \$2.25.	

YEW

Hicks, 1 to 2½ ft., \$2.00 to \$3.00.	
Spreading, 1 to 3 ft., \$2.00 to \$3.00.	
Columnar (Adams), 1 to 4 ft., \$4.00 to \$8.00.	
Sugar Maple, 1 to 3-in. cal., \$1.50 to \$7.50.	
Chinese Elm, 1 to 3-in. cal., \$1.00 to \$5.00.	

FOUST BROS. NURSERY
507 W. Eaton Pike Richmond, Ind.

EVERGREENS AND EUONYMUS

	Per 100
Pfitzer Juniper, 18 to 24 ins.....	\$275.00
Pfitzer Juniper, 24 to 30 ins.....	375.00
Pfitzer Juniper, 3 to 4 ft.....	425.00
Hetz Juniper, 24 to 30 ins.....	325.00
Hetz Juniper, 3 to 4 ft.....	425.00
<i>Euonymus patens</i> , Bare-rooted, 18 to 24 ins.....	50.00
Bare-rooted, 24 to 30 ins.....	75.00
<i>Euonymus radicans</i> , B&B, 18 to 24 ins.....	275.00

	Each
Austrian Pine, B&B, 4 to 5 ft.....	\$7.50
Scotch Pine, B&B, 4 to 5 ft.....	7.50
Globe Arborvitae, B&B, 18 to 24 ins.....	3.25
Spiney Greek Juniper, B&B, 18 to 24 ins.....	2.75
Berkmans' Arborvitae, B&B, 24 to 30 ins.....	3.00
Berkmans' Arborvitae, B&B, 3 to 4 ft.....	3.75
Andorra Juniper, B&B, 18 to 24 ins.....	2.75
Andorra Juniper, B&B, 3 to 4 ft.....	3.25

Send quotations on large landscape specimen Junipers, Yews and shade trees.

BRUENING'S NURSERIES
Higginville, Mo.

BERBERIS ATROPURPUREA NANA

	Each
6 to 9-in. spread, B&B, \$60.00 per 100.	
Bare-root, \$50.00 per 100.	

Hardy Rhododendron hybrids, many varieties, cutting-grown from liners up to 24 to 36 ins.

WEST OREGON NURSERY
3550 N. W. Saltzman Rd. Portland 10, Ore.

HOLLY

	Each, per 100
<i>Ilex crenata</i> (Japanese Holly), B&B, 2 to 2½ ft.....	\$4.00
2½ to 3 ft.....	5.00
3 to 3½ ft.....	6.25
3½ to 4 ft.....	7.25
4 to 5 ft.....	9.00
<i>Ilex crenata</i> (spreading type), B&B, 18 to 24 ins., spreading.....	\$3.00
2 to 2½ ft., spreading.....	3.90
2 to 2½ ft., spreading.....	5.00
2½ to 3 ft., spreading.....	6.00

MAPLES

	Each
NORWAY (straight trees), well-headed, bare-root, 1½ to 2-in. caliper.....	\$ 9.00
2 to 2½-in. caliper.....	11.00
2½ to 2½-in. caliper.....	13.00
2½ to 3-in. caliper.....	16.50
SUGAR (<i>Acer saccharum</i>), 1½ to 2-in. caliper.....	11.00
2 to 2½-in. caliper.....	14.50

BULK'S NURSERIES

610 W. Montauk Hwy. Babylon, L. I., N. Y.

STOCK LIST, READY FOR FALL

635 Norway Maple, 1½ to 2½-in. cal.	
435 Swedish Maple, 1½ to 2½-in. cal.	
440 Sugar Maple, 1½ to 2½-in. cal.	
3500 Silver Maple, 1 to 3-in. cal.	
730 American Elm, 1 to 2½-in. cal.	
815 Chinese Elm, 1½ to 5-in. cal.	
96 American Birch, 1½ to 2-in. cal.	
55 American Birch, clumps	
144 European Birch, 1½ to 3-in. cal.	
Low branched	
410 Honey Locust, 1 to 1½-in. cal.	
1300 American Sycamore, 1 to 2½-in. cal.	
109 Tulip Tree, 1½ to 3-in. cal.	
800 Flowering Crab Apple, 3 to 6 ft., 3-yr.	
1500 Redbud, bush form, 2 to 5 ft.	

Write for prices. Also flowering shrubs, Evergreens, Junipers, in 1 to 6 ft.; Arborvitae, liners to large sizes.

NAGLE'S NURSERY

84th Ave., R. 2, Box 267 Decatur, Mich.

SHRUBS

	Per 100
<i>Athaea</i> , mixed colors, 3 to 4 ft.....	\$ 25.00
<i>Abelia grandiflora</i> , 18 to 24 ins., B&B.....	100.00
<i>Buddleia</i> , white, 3 to 4 ft.....	40.00
<i>Buddleia</i> , purple, 3 to 4 ft.....	40.00
<i>Deutzia crenata</i> , 2 to 3 ft.....	20.00
<i>Deutzia crenata</i> , 3 to 4 ft.....	25.00
<i>Forsythia</i> , 2 to 3 ft.....	20.00
<i>Forsythia</i> , 3 to 4 ft.....	25.00
<i>Lonicera morrowi</i> , 2 to 3 ft.....	20.00
<i>Lonicera morrowi</i> , 3 to 4 ft.....	20.00
<i>Lonicera tatarica</i> , 2 to 3 ft.....	25.00
<i>Lonicera tatarica</i> , 3 to 4 ft.....	25.00
<i>Philadelphus grandiflorus</i> (Mock Orange), 2 to 3 ft.....	20.00
<i>Philadelphus grandiflorus</i> , 3 to 4 ft.....	25.00
<i>Spiraea vanhouttei</i> , 2 to 3 ft.....	20.00
<i>Spiraea vanhouttei</i> , 3 to 4 ft.....	25.00
<i>Weigela rosea</i> , 2½ to 3 ft.....	25.00
<i>Salix babylonica</i> (Willow), 4 to 6 ft.....	25.00
<i>Salix babylonica</i> , 6 to 8 ft.....	50.00
<i>Salix babylonica</i> , 8 to 10 ft.....	100.00

Cash, immediate delivery.

SCHWARTZ NURSERIES Lancaster, Pa.

SHRUBS AND TREES

500 Baker's Arborvitae, 3 to 4 ft., B&B.....	\$1.50
2500 Berkman's Golden Arborvitae, 18 to 24 ins., B&B.....	1.25
300 Berkman's Green Arborvitae, 18 to 24 ins., B&B.....	1.25
800 Andorra Juniper, 18 to 24 ins., B&B.....	1.50
100 Hetz Juniper, 2 to 3 ft., B&B.....	1.75
50 Kiyono Juniper, 3 to 4 ft., B&B.....	1.25
1000 Pfitzer Juniper, 18 to 24 ins., B&B.....	1.50
100 Cherry Laurel, 3 to 4 ft., B&B.....	1.50
300 English Ivy, 2½-in. pots.....	.15
400 Nandinas, 3 to 3½ ft., B&B.....	1.25
400 Forsythia spectabilis, 3 to 4 ft., bare-root.....	.40
125 <i>Spiraea reevesiana</i> , 2 to 3 ft., bare-root.....	.40

TERMS: Cash with order. For C.O.D. order, a deposit of 25 per cent must accompany the order.

BATES KING NURSERY Leighton, Ala.

COLLECTED

Sugar and Red Maples, clump Birch, burnhacks, 3 to 5 stems; 5 to 8 ft., 8 to 10 ft., 10 to 12 ft., \$4.00, \$6.00, \$10.00. Good white color, 3 to 5 ft., same as above except color, \$2.00.

Maples, from whips to 3-in. cal.; good roots, straight trunks. Write or call So. Canaan 15R61.

H. D. 2 SWINGLE'S NURSERY Lake Ariel, Pa.

B&B STOCK

100 Dogwood, white, 6 to 8 ft.....	\$ 7.50
100 Dogwood, white, 8 to 10 ft.....	10.00
350 Ilex rotundifolia, 15 to 18 ins.....	2.25
350 Ilex rotundifolia, 18 to 24 ins.....	3.00
150 Ilex rotundifolia, 24 to 30 ins.....	4.00
300 Canada Hemlock, 15 to 24 ins.....	2.50
200 Canada Hemlock, 30 ins.....	3.00

Heavy, sheared stock to 15 ft. height.

SOERGER TREE SERVICE Babcock Blvd. Gibsonia, Pa.

SHADE TREE LINERS

	100	1000
<i>Acer rubrum</i> , 2-yr. seedlings, 10 to 15 ins.....	\$ 5.00	\$ 45.00
* <i>Crataegus</i> (cordata) <i>phaeopyrum</i> , 1-yr. seedlings, 8 to 12 ins. and up.....	7.50	60.00
<i>Liquidambar styraciflua</i> , 1-yr. seedlings, 4 to 8 ins.....	8.00	75.00
2-yr. seedlings, 12 to 18 ins.....	15.00	100.00
<i>Quercus borealis</i> , 1-yr. seedlings, 6 to 8 ins.....	6.00	50.00
<i>Quercus coccinea</i> , 1-yr. seedlings, 6 to 8 ins.....	10.00	75.00
* <i>Quercus palustris</i> , 1-yr. seedlings, 6 to 8 ins.....	6.00	50.00
<i>Sorbus aucuparia</i> , 2-yr. transplants, 13 to 24 ins. up, 25.00	200.00	

Items marked by asterisk (*) available in quantities of 10,000 or more. Special quotations on request.

HESS' NURSERIES P. O. Box 128 Wayne, N. J.

MUST MOVE 3000 TREES AND EVERGREENS

1000 Silver Maple, 8 to 10, 10 to 12 ft.	
500 Chinese Elm, 8 to 10, 10 to 12 ft.	
300 Tulip Poplar, 8 to 10, 10 to 12 ft.	
300 Sycamore, 8 to 10, 10 to 12 ft.	
50 Redbud, 6 to 8 ft.	
25 Sweet Gum, 4 to 6 ft.	
50 Mimosa, 1 to 2-in. cal.	
100 Green Ash, 8 to 10, 10 to 12 ft.	
You dig, \$1.00 each.	
We dig, \$1.25 each.	
500 Austrian Pine, 3 to 4, 4 to 5, 5 to 6 ft.	
You dig, \$2.00 each.	
We dig, \$2.50 each.	

All orders strictly cash.

BING'S NURSERY Madison, Tenn.

Phone Nashville, Canal 8-2526.

FALL SURPLUS, FINISHED STOCK

100 Canadian Hemlock, 2½ to 6 ft.	
beautiful plants, \$3.75 to \$8.50 each.	
50 Colorado Spruce, well-shaped plants, 3½ to 6½ ft., \$7.50 to \$12.50 each.	
50 Colorado Blue Spruce, heavy trees, priced at \$11.50 to \$22.50.	
Trees 4 to 6 ft. tall.	
200 Balsam Fir, fine for Christmas trees; heavy plants, 3 to 6½ ft., \$3.50 to \$8.50 each.	
350 Pfitzer Juniper, 18 to 36-in. spread, \$2.50 to \$4.50 each.	
200 White-flowering Dogwood, 6 to 8 ft., \$6.50 to \$8.50 each.	

FLORAL GARDENS NURSERY

25 miles west of Dayton Eaton, O.

GARDEN CENTER AND LANDSCAPE MATERIAL, NORTHERN-GROWN.

	Each
Southern priced, B&B.....	
Berkman's Biota, 15 to 18 ins.....	\$1.25
Greek Juniper, 15 to 18 ins.....	1.25
Pfitzer and Hetz Juniper, 15 to 18 ins.....	1.25
18 to 24 ins.....	1.50
Compact Irish Juniper, 2 to 3 ft.....	1.00
3 to 4 ft.....	1.50
Pyramidal Arborvitae, 2½ to 3 ft.....	1.50
3 to 4 ft.....	1.75
<i>Abelia grandiflora</i> , 3 to 4 ft.....	1.50
<i>Ilex rotundifolia</i> , 15 to 18 ins.....	1.50
Nandinas (berried), 2 to 3 ft.....	1.50
<i>Euonymus patens</i> , 18 to 24 ins.....	1.25

Complete list on request.

ARROW-WOOD NURSERIES

Phone Jordan 7-4401 Warsaw, Ky.

Norway Maple, 1½-in. cal., \$6.00; 1½-in. cal., \$3.00 each.

Sugar Maple, 1½-in. cal., \$7.00; 2-in. cal., \$15.00.

Clump European White Birch, 10 to 12 ft., 10, \$45.00.

Cut-leaved Weeping Birch, 10 to 12 ft., 10, \$52.00.

Flowering Crab, heavy, 5 to 8, 10, \$40.00.

Bearing-size fruit trees, 10, \$25.00.

Dwarf Apples, transplanted, 10, \$22.00.

Amur River Privet, heavy 4 to 5 ft., 100, \$35.00.

Pickup at nursery or will deliver at cost.

Also Lilacs, Spiraea, Forsythias, Roses, perennials, etc.

Finnerty's Nursery, Renaslaer, N. Y.

Mountain-grown, dwarf Mahonia aquifolium, 1958 seed, from selected plants under 15 ins. Rock special, 100 seeds, \$2.50; under 24 ins., \$5.00 per oz. Regular dwarf selection, most plants under 14 ins., \$3.50 per oz.; 4 ozs., \$8.00; 1 lb., \$25.00.

All seed from inspected U.S.D.A. areas. Fields are subject to temperatures minus 30 to plus 100 degrees. Rainfall 17 ins. Ideal broad-leaved Evergreens, any climate.

Plants from dwarf mountain-grown seed. 1-yr., \$12.00; 2-yr., transplanted, \$20.00, prepaid.

Cash with order. Stock may be returned in 5 days. Old established nursery, 25 years N. E. Washington.

Mayhan Nursery, Veradale, Wash.

Cherry Laurel liners, *Prunus caroliniana* and *Prunus laurocerasus*, *schipkaensis*, *sabelliana*, *macrophyllum* and *officinalis*.

Please see complete list on page 69.

Templeton, Phytoktor, Winchester, Tenn.

SHRUBS AND TREES—Continued

HYPERICUMS

(Golden St.-John's-wort)

Most Hypericums are loose and drooping. This very hardy shrub is a stiff, upright growing dwarf jewel to about 3 ft. at maturity. The bright yellow flowers are in continuous bloom for several weeks at a time. Made to order where a dwarf, summer-flowering shrub is needed.

Per 100
15 to 18 ins. \$25.00
18 to 24 ins. 32.50

THE HOME NURSERY

Corliss Ingels, LaFayette, Ill.
Since 1887, in Stark County

AMUR RIVER PRIVET

1-yr., 9 to 18 ins., 2 canes or more,
\$35.00 per 1000.

These have been cut back twice, branched excellent. Plants are the best we have ever grown.

LOMBARDY POPLAR

2-yr., heavy branched.

4 to 5 ft. 40c each
5 to 6 ft. 50c each
6 to 8 ft. 60c each

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

PINK DOGWOOD

Heavy branched, 4 to 6 ft., B&B, \$1.00 per ft.

TAXUS

Capitata, cuspidata, thayerae,
5 and 6-yr., B&B, \$2.00 each.

TAXUS LINERS

Henryi, thayerae, hicksi, etc.

3-yr., bedded, \$30.00 per 100.

4-yr., bedded, \$40.00 per 100.

Also a variety of other plant material for landscape work. All orders to be picked up at our nursery.

KEISERBERGEN NURSERIES

1707 Springfield Ave. New Providence, N. J.

AVAILABLE FOR IMMEDIATE DELIVERY

100 Acer platanoides, 2½ to 3-in. caliper.
50 Gleditsia triacanthos inermis, 2 to 3-in. caliper.

500 Taxus cuspidata, 3 to 4-ft. spread.

Also a large selection of

Evergreens and shade trees, up to 6 to 7-in. caliper.

Send us your WANT LIST. Write for prices, or call

THE BUDDIES NURSERY

P. O. Box 14 Birdsboro, Pa.

Phone JUNiper 2-7257

SURPLUS STOCK

10,000 Chinese Elm, excellent quality.

5 to 6 ft. \$ 50.00 per 100

6 to 8 ft. 75.00 per 100

8 to 10 ft. 100.00 per 100

10 to 12 ft. 150.00 per 100

1½ to 2-in. cal. 200.00 per 100

Write for our fall and winter price list.

Shade trees and evergreens our specialty.

ROLLERS WHOLESALE NURSERY

Rogers, Ark.

NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE

MAPLE, AZALEAS, HOLLIES, MAGNO-

LIA, DOGWOODS and other choice founda-

tion planting stock in both finished and

lining-out grades. Catalog upon request.

Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurserymen

IN THE HEART OF FAMOUS LAKE CO.

Mahonia aquifolium (Oregon Grape), native

here and very dwarf (has stood 40 de-

grees below zero). Gathered plants and root

cuttings. Can supply now, any amount until

ground freezes, and again spring, 1959. Just

beginning business. Will sell or trade for

a wide variety of plant material. Prefer

trade. What do you have?

D. Lawyer & Sons Nurseries, Plains, Mont.

SHRUBS AND TREES

Norway Spruce, 2 to 3 ft. \$2.25

Norway Maple, 8 ft. 3.25

Azalea Hino, 24 ins. 2.50

Shade trees, 10 ft. 2.75

BILL WENTZELL, ELMER, N. J.

RED CEDAR, NURSERY-GROWN

4 to 6 ins. \$35.00 per 1000

6 to 10 ins. 70.00 per 1000

PIN OAK, NURSERY-GROWN

6 to 12 ins. \$50.00 per 1000

12 to 18 ins. 75.00 per 1000

2-yr. transplants, 18 to 24 ins., 20.00 per 100

R. E. HESSLSCHWERDT

Rogers, Ark.

FALL SURPLUS

100 Hardy Cedar of Lebanon, 3-yr. Each

grafts \$3.00

50 Cladrastis lutea, 8 ft., XX. 3.00

25 Maackia amurensis, 4 to 5 ft., XX. 3.00

50 Ilex opaca, 2 to 3 ft., pickup. 3.50

25 White Dogwood, 6 to 7 ft., pickup. 5.00

Cash with order.

BRIMFIELD GARDENS NURSERY

245 Brimfield Rd. Wethersfield 9, Conn.

YOU DIG SPECIALS

Each
2 Beech, 12-in. cal. \$50.00

3 Linden, 18-in. cal. 50.00

2 Pin Oak, 6-in. cal. 25.00

12 Apple, 8 to 12-in. cal. 25.00

2 Quince, 4 to 6-in. cal. 25.00

6 Pear, 4 to 6-in. cal. 25.00

2 Plum, 4 to 6-in. cal. 10.00

2 Allanthus, 4 to 6-in. cal. 10.00

ALEX J. SUMMERS

147 Rhodes Ave. Hempstead, N. Y.

Phone IV 9-4863

SHRUBS AND TREES

See our Classified ad in this issue under

LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

TAXUS

EXTRA!

TAXUS DEMAND GROWING.

Why not meet this demand by sending us

your cuttings to be rooted.

Details and prices upon request.

RICHARDSON NURSERIES, INC.

53947 Fir Rd., R. 1 Granger, Ind.

TAXUS CAPITATA

The seed was imported from Japan. The

plants are strong selected 4-yr. transplants.

Two years ago when the stock was trans-

planted, only selected plants were picked to

grow on. Per 100 Per 1000

(EACH) (EACH)

4-yr., T. 10 to 15 ins., heavy. \$0.45 \$0.40

C. HOOGENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

CUTTING WOOD

Taxus hicksi, stems 10 to 15 ins., in lots

of 5000, 2c each. No shipping. Sold only

at the nursery. Cash, please.

DUNLAP NURSERY

Oakwood Manor Cromwell, Conn.

Phone Diamond 6-4972 after 6:30 P.M.

Taxus, liners, 50,000 (10,000 of each vari-

ety). Hatfield, densiformis, henryi, thay-

erae, hicksi. Extra heavy 2-yr.-old, trans-

planted, certified stock, 45c each, per 100;

40c each, per 1000; 35c each, per 5000 and

up. Ship beetle zone or outside beetle zone.

Cedarhurst Nurseries, Inc., 3044 Pawtucket

Ave., East Providence, R. I.

TAXUS LINERS AT A BARGAIN

10,000 3-yr.-old liners, heavy.

Cuspidata, spreading.

\$35.00 per 100, \$300.00 per 1000.

Ship beetle zone, outside beetle zone.

Free packing and samples on request.

LARRY'S NURSERIES, INC.

960 Reservoir Ave. Cranston 10, R. I.

VIBURNUMS

Viburnum liners: Viburnum, carlesii, che-

nauli, Juddi, macrocephalum sterile, rhy-

dophylloides, rhytidophyllum and toment-

osum plicatum grandiflorum.

Please see complete list on page 69.

Templeton, Phytotektor, Winchester, Tenn.

VIBURNUM CARLESII COMPACTA (NEW).

This is a compact form of Viburnum car-

lesii with dark green leaves and buds up very

readily. Per 100 Per 1000

(EACH) (EACH)

Strong 2-yr. grafts \$1.50 \$1.25

C. HOOGENDOORN, NURSERYMAN

413 Turner Rd. Newport, R. I.

VINES

LARGE-FLOWERING CLEMATIS VINES

1-yr. container grown, 75c each.

Comtesse de Bouchaud, pink

Ernest Markham, red

Ville de Lyon, red

Fall delivery. Cash with order.

FOUR STAR NURSERY

8215 238th St., S. W.

Edmonds, Wash.

MISCELLANEOUS

MISCELLANEOUS Per 1000

Privet (Amur River) North, heavy

tops and roots, 1-yr., uniform \$48.00

Pachysandras, rooted cuttings 50.00

English Ivy, rooted cuttings 50.00

Andorra Juniper, Taxus, rooted cuttings,

\$10.00 per 100.

IVYDALE NURSERY

Route 1 Gallipolis, O.

WANTED

WANTED

CUTTING WOOD FOR 20,000 YEWS

November 15 or later.

Send price list to

WM. H. HOARE

5th St. and Orchard Ave. Palmyra, N. J.

WANTED

Tricolor Beech, about 2-in. caliper.

Please quote price.

SIMMONS NURSERY AND

LANDSCAPE, INC.

2260 Eastgate Road Toledo 14, O.

WANTED

UNROOTED CUTTINGS OF TAXUS

AND ILEX.

ALL VARIETIES

DUNEGAN NURSERY

Clymer, Pa.

WANTED—TAXUS

Unrooted cuttings of Taxus, densiformis,

wardi, browni, Adams columnaris. Now to

March 15.

MIAMI NURSERY CO.

Route 2 Tipp City, O.

WANTED

Ornamental Orange and Lemon trees

for indoor use.

THE PETER CASCIO NURSERY

2600 Albany Ave. West Hartford 7, Conn.

SUPPLIES

BURLAP

NEW BURLAP

In bolts or rolls of 100 to 125 yds.

HEAVYWEIGHT BURLAP

Width In bolts On rolls

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60 ins. 34½c 36½c per yd.

72 ins. 40½c 42½c per yd.

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No. 3, 12x16x2½-in.	20.75	260	325
No. 4, 12x16x3½-in.	24.50	275	346
No. 5, 14x16x2½-in.	23.25	275	346
No. 6, 14x16x3½-in.	27.50	290	365
No. 7, 15x22x2½-in.	30.75	380	475
No. 8, 15x22x3½-in.	35.50	425	536
No. 9, 11½x22½x2½-in.	25.00	320	400
No. 10, 11½x22½x3½-in.	29.00	400	500
No. 11, 14x16x5-in.	32.75	450	560
No. 12, 6x11x5-in.	16.75	160	200
No. 13, 6x11x5-in.	19.00	215	270
Plant boxes, 5x8½x2½-in.	5.50	45	60

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Shipped knocked-down in units of 25. F.O.B. mill. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.

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Bag pack — approx. 4 cu. ft., 30 lbs.

1 to 9 bags	\$2.25 each
10 to 99 bags	1.95 each
100 to 199 bags	1.85 each
200 to 299 bags	1.75 each
300 to 399 bags	1.65 each
400 to 499 bags	1.55 each
1200 bags — carload	1.45 each

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TEMPLE CITY, CALIFORNIA

State College, conducted workshop sessions at Sixes and Ophir, Ore., recently. The workshops were sponsored by the county extension service and were designed to assist homeowners in landscaping their homes and other buildings.

Mrs. John Patrick Hannon, Hannon's Primrose Gardens, Milwaukie, was recently awarded the American Primrose Society 1958 premier award for outstanding achievement in hybridizing. She developed a beautifully textured pure white Candelabra primrose.

According to John Wieman, superintendent, Oregon state nursery inspection bureau, the annual meeting of the Oregon Bulb, Florist and Nursery Council will be held in Room 372, State Office building, Portland, January 5, 1959, at 8 p. m. C. H. P.

MEDIA FOR PROPAGATION

[Continued from page 14]

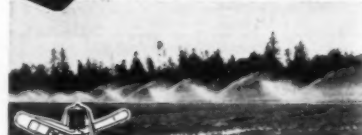
rapidly than was previously considered possible. This is especially important during the fall and winter months, particularly with a crop such as rhododendrons, because difficult varieties can be put in early in the season and more easily rooted ones left until later. I have been able to remove cuttings inserted in a peat-perlite medium this season after about four weeks. This gives some indication of the effect of the medium, at least as observed on easily rooted cuttings.

Vermiculite

When vermiculite first became available, I tried it, but came to the conclusion that it was not suitable for ordinary plants grown by the average nurseryman. I have had no occasion to change my opinion since then, except to add that I do believe vermiculite has a place in the rooting of soft cuttings or in the rooting of batches of cuttings which go into a bench and out again quickly, such as chrysanthemum or coleus cuttings. Vermiculite can also be used to store rooted cuttings.

A neighbor of mine habitually roots his cuttings in a standard sand-peat mixture and then transfers them to deep flats of moist vermiculite, heeling them in close together and letting them reroot (without growing) for two or three months. Thus the bench space is cleared, and the cuttings can be held until they can be handled later in the winter or early spring. The root system that results from handling the cuttings this way is superior because the roots are disturbed and become

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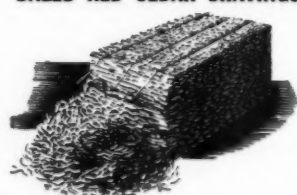
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The Perfect Nursery Packing

Manufactured by

MONARCH SHINGLE CO.

P. O. BOX 98

N. PORTLAND, ORE.

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TREE WRAP

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Sacrifice—2000 rolls

\$1.00 per roll.

3 1/2 in. wide, 270 ft. per roll.

10-in. diameter rolls.

Write for sample.

BEECHER, PECK & LEWIS

Flint, Mich.

branched and the cuttings transplant without loss.

Media Under Mist

An interesting episode occurred two years ago, when I was experimenting with different media under mist for rooting rhododendrons. I ran a series of tests using the standard sand-peat mixture, a 50-50 sand-peat mixture, a mixture of one-third sand, one-third peat and one-third shredded sphagnum and a mixture of 80 per cent shredded sphagnum moss and 20 per cent sand. Three or four varieties of rhododendrons were used in these tests, and cuttings received hormone applications of different strengths. The whole planting was set up in a bench under intermittent misting. Cuttings were inserted in the different media, and there were replications covering the different hormone applications. Under intermittent misting of about 20 seconds every five minutes, the cuttings in all of the media except the standard 90 per cent peat and 10 per cent sand and the 50-50 sand and peat failed. Anything containing sphagnum was definitely inferior, and although there was apparently excellent aeration, because the medium was packed in loosely in the bench, nevertheless the cuttings did not root well and many of them died.

Sphagnum for Conifers

An interesting effect was noted at an adjacent test in rooting a dwarf conifer, *Chamaecyparis obtusa nana gracilis*, which was being conducted at the same time. The conifer cuttings had been treated with indolebutyric acid in an aqueous solution for 18 hours, then inserted in a peat-sand mixture that was advocated by the growers in Holland in their annual report from the Boskoop trial gardens. A number of experiments on the propagation of this particular plant had been carried out there, and it had been clearly shown that a mixture of about 75 per cent peat and 25 per cent sand was the best. Under mist, the cuttings rapidly began to rot, and at the end of about a month, the whole block was lifted and many cuttings were thrown away and the rotted bases trimmed from those that appeared still alive.

Three or four of the cuttings had been inserted near the sphagnum-peat mixture that was being used on the other half of the bench for the rhododendron tests. These cuttings had rooted with amazing vigor into the sphagnum-peat mixture.

On this hint, all partially rotted cuttings that had been lifted from the sand-peat mixture were trimmed,

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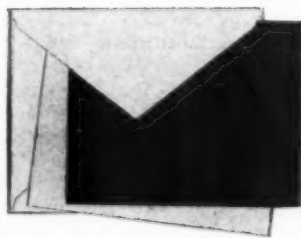
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1/4, 3/8, 1/2-in. male
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pipe thread.

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each, postpaid
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FOGGER CAPACITY AND APPROXIMATE
BENCH WIDTH COVERED
at 25 Lbs. Pressure, 4-Ft. Height

Orifice Size	Spray Angle Degrees	Gallons Per Hr.	Coverage 4-Ft. Height
0.9	60	0.45	
2.0	80	1.00	24 ins.
4.6	160	2.30	36 ins.
6.4	160	3.20	48 ins.
10.0	160	5.00	60 ins.

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cleaned and reinserted in the new medium of sphagnum and sand. In about three weeks, all of the cuttings so inserted that had rooted could be potted. The importance of the sphagnum and sand mixture to this particular plant was confirmed by later tests, which showed that under intermittent misting it rooted with great vigor and speed in the sphagnum-sand mix.

The dwarf conifers would not root when placed in a sand-peat medium, while the rhododendrons rooted well there. Obviously, the medium must be varied to suit the requirements of the plant. It may be necessary to carry out a modest number of tests to determine the optimum medium for the plant under conditions of high humidity or intermittent misting.

Mixes for Plant Types

For most of the standard nursery items, sharp sand is the medium to be preferred. If the greenhouse is constructed in such a manner that it is laborious to take sand in and out, then plain perlite can be used. This medium is satisfactory for a wide range of plant materials, softwood, hardwood, evergreen and deciduous cuttings. Certain groups of plants, particularly the ericaceous group, prefer a mixture of peat and sand or perlite and sand. Generally, a 50-50 mixture is best, although rhododendrons and some azaleas seem to prefer a medium of 90 per cent peat. A 70 per cent peat and 30 per cent perlite mixture appears to be even more satisfactory for most ericaceous material than any of the other peat-sand mixtures, and the same medium is excellent for Japanese maples. Certain specific plants may require a specialized medium, such as the mixture of sphagnum moss and sand, and the propagator should be prepared to test various mixtures should any plant not respond to normal propagation procedures.

It is a moot point whether extensive experimentation is justified in the average nursery. Each grower must decide just how much time, space, effort and money he can afford to spend on testing methods of unknown value. A balance must be maintained between everyday production and a natural desire to improve one's knowledge and efficiency. I believe that a modest amount of experimentation should be an essential part of any live, active business. It would seem that, for the keen propagator, testing of different media offers a worthwhile area for immediate practical returns.

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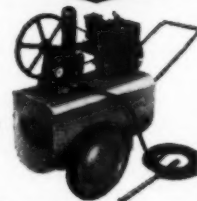
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BOOK REVIEWS

CULTIVATED MAPLES

Again the American Association of Botanical Gardens and Arboreta has done a service to the nursery industry as well as to horticulture generally by publishing a 60-page booklet on "Maples Cultivated in the United States and Canada," by Brian O. Mulligan, director of the University of Washington Arboretum, Seattle, Wash. It follows similar valuable booklets on the crab apples and on the lilacs. The booklet on maples contains, in addition to the list of maples according to species and varieties cultivated, data regarding geographical distribution, botanical classification and location of less common plants in arboreta, as well as notes on propagation. Also included are suggested lists as to those species or varieties useful for large shade trees, as small ornamental trees and for fall color. This is a highly valuable book to anyone interested in maples, particularly for reference on specific and varietal names. It is published by the association at \$2 per copy and is obtainable from the secretary, C. W. Fenninger, Tyler Arboretum, Box 216, Lima, Delaware county, Pennsylvania.

AMARYLLIS MANUAL

A half century of interest in the plant and a half-dozen years in retirement from his post as principal physiologist of the United States Department of Agriculture have aided Dr. Hamilton P. Traub to produce a book that is at once interesting, complete and informative, "The Amaryllis Manual," just published by the Macmillan Co. at \$7.50. Dr. Traub is already known as an authoritative source of information to amaryllis lovers in his long service as editor of *Herbertia*, the yearbook of the American Amaryllis Society.

The book is so designed that amateur growers of amaryllis indoors or in southern gardens will find it a useful handbook, while propagators and others commercially interested will find it valuable. The author traces the history of the plant in the opening chapters and then describes the various species and types of hybrids. Later chapters cover breeding, propagation, culture, diseases, insect pests, marketing, exhibition and various uses. For the breeder or other person scientifically interested in amaryllis, the 90 pages

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of appendixes present chromosome numbers, nomenclature, generic diagnoses with a key to known species and their complete descriptions. Also included are lists of amaryllis organizations, commercial growers and dealers, as well as names and addresses of commercial sources of materials mentioned in the text. A glossary of terms, a bibliography and a 16-page index complete this

thoroughgoing volume. It is illustrated with 20 full-page plates of drawings and a dozen halftones.

WINDOW SILL GARDENING

For beginners with house plants, James Underwood Crockett has written a little book, "Window Sill Gardening," just published by Doubleday & Co., at \$2.95. It does not

pretend to be complete or all-inclusive, but it has helpful advice for those whose ignorance of even house plants is considerable.

After an introductory chapter of encouragement and a chapter on how plants grow, individual chapters are devoted to African violets, cyclamens, poinsettias, gardenias, spring-flowering bulbs, caladiums, azaleas, Easter flowers, gloxinias, geraniums,

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chrysanthemums and hydrangeas. A chapter on good foliage plants tells about a dozen common ones, and a chapter on less common house plants treats the less usual flowering plants. Final remarks are on the summer care of house plants, diagnosing and treating troubles and cut flower arranging.

In addition to the 120 pages of text there are two 8-page inserts of illustrations in color.

HOUSE PLANTS

The housewife who wants a handy and concise reference book to help her succeed with her indoor plants will welcome the "Complete Book of House Plants," by Andree Vilas Grabe, just published by Random House, Inc., at \$2.95. In its 128 pages are brief instructions, arranged alphabetically, of 275 popular plants, with a picture of each alongside the paragraph of text. This alphabetical reference section occupies most of the book, but the first 35 pages give general instructions about soils, potting, light, watering, temperature, feeding, tests and propagation. This portion is likewise illustrated. The author has spent a lifetime in growing house plants, and the instructions provided by her are concise but quite to the point.

ART OF JAPANESE GARDEN

Anyone seeking unusual ideas and especially exotic notes for garden planning and construction will find suggestions in the more than 200 photographs reproduced in "The Art of the Japanese Garden," by Tatsuo Ishimoto, author of books on flower arrangements, driftwood arrangements and growing miniature trees and landscapes. Published by Crown Publishers, Inc., at \$2.95, this 128-page book represents five months of touring Japanese gardens by the author, who took more than 2,000 photographs on his trip. A professional San Francisco photographer, he is much absorbed by his hobbies of flower arrangement and gardening.

The photographs reproduced in the book are of details or portions of small gardens, rather than scenes or vistas, so that they present the details that are important in any landscape planning.

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# The Responsibilities of the Arborist

By Leslie S. Mayne

An arborist is interested in trees as individuals, whereas a forester is interested in trees in groups or in mass. Furthermore, the arborist's prime concern is an aesthetic one, the forester's a utilitarian one. The arborist and the forester meet on common ground when considering trees as windbreaks, as a means of soil erosion control or in large numbers in parks and other recreational areas. The fact remains, though, that the arborist's main concern is the use of trees for their ornamental and shade-giving value.

With this responsibility to maintain trees and encourage others to maintain them so that they reach and keep their greatest beauty and health, the arborist approaches trees entirely differently from a forester growing timber, who considers trees only from the point of view of utilizing their physical products as completely as possible. To an arborist, a tree may have far greater value because it is gnarled and crooked. Such a tree may not only be more beautiful or picturesque, but may define a mood in the landscape and so add something intangible.

## Advise on Tree Merits

Arborists generally are not skilled or trained to do landscaping and, therefore, they should not attempt to encroach on the landscape architect's field. However, arborists should be prepared by study and practical experience to advise landscape architects and tree owners on the merits of any given species, both from the environment standpoint and regarding resistance to pests and diseases. For instance, arborists in the state of California would never advise the planting of Monterey cypress outside its native habitat, because of its susceptibility to the cypress bark canker disease. Nor would a California arborist advise the planting of Aleppo pines in some districts, because of their susceptibility to the western pine blister gall disease. He should be prepared to suggest substitutes which will give approximately the same effect.

The arborist's responsibility starts

A talk given by Leslie S. Mayne, San Mateo, Calif., on "The Arborist's Point of View Toward Trees—God's Creation, Our Responsibility," part of a symposium presented at a meeting of the Western chapter of the National Shade Tree Conference held at the Disneyland hotel, Anaheim, Calif., last spring.

in his everyday life with a casual word here and there. It continues with his advertising and with joining conservation groups, his chamber of commerce and various service organizations. Wherever he goes, he must spread the word that trees are part of everyone's heritage, that they are not to be abused and that there should be a place for an arborist in the planning of any subdivision or building site where there are already trees growing.

## Approach Public

The general public should be educated so that it more fully appreciates trees. Public opinion should be encouraged to condemn the mutilation and unnecessary destruction of trees on subdivision sites and during road building.

More and more, as subdivisions and house sites move into the hills, as level land becomes scarcer, there is going to be an increased destruction of trees by grade changing. More and more, proud possessors of new homes who may have bought their new houses because of the na-

tive and mature trees around them are going to have the unhappy problem of dying trees, just because no provision was made during the original grading for the protection of them.

It is, therefore, essential that all practicing arborists see that no subdivision or home site containing trees is planned without the owner's being made aware that it would be advisable to employ an arborist in a consulting capacity. The employment of an arborist should be considered as necessary as hiring a landscape architect. The arborists have a long way to go before this point is reached.

In order to show the home builders the desirability of employing an arborist, one should point out first that trees add value to the property and that, if many of the trees die before all of the property is sold off, there will be a monetary loss. When owners realize this, it is easier to convince them that the protection of the trees before the grading and road making starts will save money and that attempting such work after the grading is complete will cost more

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| <b>PENNSYLVANIA</b> | E. C. Geiger, North Wales, Pa.<br>Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa.<br>Rt. 88, S. Park, Pittsburgh, Pa.                                            |
| <b>NEW JERSEY</b>   | New Yorker Bag & Burlap Co., 651 Marshall St., Elizabeth, N. J.<br>Somerset Rose Nursery, Inc., New Brunswick, N. J.                                                             |
| <b>ILLINOIS</b>     | Quackenbush Industries, Inc., 9245 Cherry St., Franklin Park, Ill.                                                                                                               |
| <b>MICHIGAN</b>     | Michigan Bulb Co., 845 Ottawa, N.W., Grand Rapids, Mich.<br>Growers Exchange, Inc., P. O. Box 397, Farmington, Mich.<br>Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich. |
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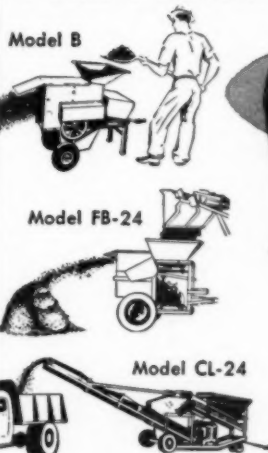
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## Duty to Tree Owners

The arborist's duty and responsibility to the proud owner of a tree is much more complex. Is he to undertake any work that the owner, inadvisedly, may specify even though the arborist knows it to be harmful? Is he to bid competitively with others on specifications so loosely drawn up by the owner or in some cases by landscape architects that poor workmanship or questionable practice can get by? Is he to bid on jobs where it appears that the amount of work, its advisability and the type of workmanship may degenerate into a battle of wits?

The arborist should do none of

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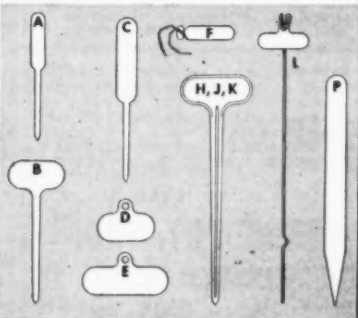
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these things, first, because two wrongs do not make a right, and, second, because, although there may be some financial gains, the arborist will lose his convictions as an arborist. He will no longer be a free man. He should drop a client who has bested him financially by being overly shrewd, because if he does not, he will be sorely tempted to get the better of the client the next time by making his tree work a contest of wits rather than doing the best work possible under the circumstances.

This does not mean that the arborist must be a purist rather than a practical person. There are times when it is quite ethical and wise to treat trees in a manner which is not for their ultimate good. Some trees can be considered as expendable. But in undertaking such work, the arborist should inform the owner carefully of the ultimate results of such procedure and that the work will be done that way solely because he wants it so. His reasons may not be clear, always, but it may be for financial consideration or because there is no other practical way to handle the situation. However, at no time should such work be undertaken that the owner can deceive others either directly or by implication. Nor should anything be undertaken to bring the profession into ill repute.

### Practices to Avoid

Examples of poor practice would be the pollarding of trees or the topping of eucalyptus and other high trees. Work that should never be undertaken would include the plugging of cavities. A plugged cavity is a complete deception; future owners may have no way of telling that the cavity was treated in such a manner until the tree collapses, possibly on a house or an individual.

Arborists should all look forward to the day when their income comes not only from supplying skilled labor and materials for tree care work, but also from fees for diagnosis and consultations. How rare it is that the owner of a declining tree will expect, without being told, that a fee will be charged for the inspection and consultation. And yet, why should the arborist not charge one as other professional advisers do?

Until such times as it is generally realized by the public that a charge for consultations is normal, the remedy is to explain that a fee will be charged for an inspection, but that this fee will be waived in the event that the work is carried out by the consulted arborist. He, of course, will

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| No. 2 | 9½ ins. | 7 ins.    | 8 ins.           | 100           | 535 lbs.            | 5.25                                                                         | 50.00    |                                                   |
| No. 3 | 9 ins.  | 8 ins.    | 9 ins.           | 100           | 600 lbs.            | 5.75                                                                         | 55.00    |                                                   |
|       |         |           |                  |               |                     | 6.25                                                                         | 60.00    |                                                   |
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be inclined to waive this fee with regular clients.

In summary, it is the arborist's duty continually to seek further knowledge in tree care, to be absolutely forthright in all his undertakings with tree owners and to do all in his power to enhance his profession. However, until such time as he is paid for what he knows rather than for what he does, the arborist's life work of tree care cannot be considered as having full professional status, and without such status, the arborist cannot exercise his full responsibility.

### DWARFING ORNAMENTALS

Experiments on the production of dwarf forms of high-quality large shrubs and small trees by means of grafting and budding techniques were begun at the Ohio agricultural experiment station in 1953. Reported by K. W. Reisch, L. C. Chadwick and P. A. Barker in the station's publication, Ohio Farm and Home Research, these experiments were undertaken in an effort to increase the number of varieties of high-quality dwarf ornamentals available for use in landscaping contemporary homes.

The techniques employed were

## LILACS FOR AMERICA

Report of 1953 Lilac Survey Committee of the American Association of Botanical Gardens and Arboretums. Alphabetical list contains about 30 species and 800 varieties. Shows color classification, originators, introducers and botanical authors. Sources of supply are keyed. 100 varieties recommended. 48 p. (1953)

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### PACKING FRUIT TREES

[Continued from page 15]

expensive. Later, corrugated boxes in five sizes were adopted to replace the nailed wood containers for shipping trees. For blueberry, raspberry and asparagus plants, we used two sizes of corrugated boxes. There were many complaints from the express company and from customers because of containers' breaking open, though they had been heavily bound with steel strapping and Fiberglas tape.

### Comparative Costs

In a comparison of costs of the corrugated cartons with the new ex-

patterned after those used in fruit tree dwarfing studies. Some scions of the desired plant types (*Malus atrosanguinea*, *Crataegus phaenopyrum* and *Forsythia intermedia spectabilis*) were grafted or budded onto various dwarf understocks. Other scions of these varieties were grafted or budded onto a dwarf stem piece that had previously been grafted onto a rootstock of the same variety as the scion.

All grafting was done in January and February in a greenhouse. The plants grafted in 1953 were held in closed grafting cases on a greenhouse bench until the graft unions healed. In later grafting work, plants were kept on an open greenhouse bench under a regulated humidity system. The latter technique resulted in easier maintenance and less loss from fungus diseases. Side graft, whip graft and shield budding techniques were used.

Although actual dwarfing effects cannot be determined for a considerable length of time, data on the success of the various grafts have been compiled. These, together with the plants' performance to date, indicate that one of the most promising combinations is *Malus atrosanguinea* (carmine crab apple) grafted onto 3-year *Cotoneaster divaricata* rootstock. Eighty-one per cent of these grafts, made in the spring of 1953, were successful, and the plants flowered when three feet high in the spring of 1955. *Crataegus phaenopyrum* (Washington hawthorn) did best when grafted onto rootstocks of 1-year *Cotoneaster divaricata*, 92 per cent of these grafts being successful. The grafts of showy border forsythia (*F. intermedia spectabilis*) on Arnold dwarf forsythia were unsuccessful, as were attempts to graft Laland fire thorn (*Pyracantha coccinea lalandi*) onto cranberry cotoneaster, dwarf quince and Japanese quince.



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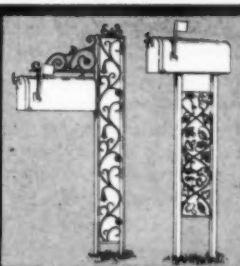
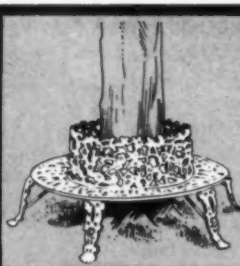
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tendable wire-bound crates, the 6-foot box serves as a typical example. The 72-inch corrugated box cost us \$2.25 and required about \$1 for steel tape and another 15 cents for Fiberglas tape, plus some staples. Against this total of about \$3.40, the 6-foot extendable wire-bound boxes (two 3-foot blanks and a pair of ends) cost \$3.64 each, plus about 25 cents for steel strapping and another 15 cents for the paper liner, or a total of approximately \$4.04.

However, the 72-inch corrugated box had a 250-pound capacity and often reached its destination broken open. The 6-foot wire-bound box has a capacity of at least 600 pounds, and instead of breakage complaints (there have been none), we have had letters thanking us for sending trees in wire-bound crates.

Based on the weight of the trees they carried, the cost of the corrugated boxes was about 1.5 cents per pound, while the extendable wire-bound boxes cost us less than 3/4 of a cent per pound of contents shipped. That means our customers save, too, for we charge the wholesale trade for packing costs when shipping l.c.l. And besides getting better arrival condition at lower cost, buyers also receive a re-usable container.



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# Selecting Plants for Use In the Landscape Design

By Harold D. Stevenson

To nurserymen, especially, the use of plants in design is highly important and justly so, for without their use, any building would just reflect architecture. A structure must have a setting that is in keeping. The planting design has as its purpose to bring out the finer details or, possibly, to hide any aspect that offends.

How these plants are used and the specific types selected enhance or detract from the landscape design. The plan may be to provide a certain form or texture to a scene or a particular blooming time or color. Again, hardiness and orientation govern the use of the plants selected. Structural features, such as walks, walls, steps, pools and terraces, also govern the types of plants chosen to create a picture.

I believe one must be able to visualize the plant to be used in relation to its location. Whether it is *Cotoneaster horizontalis* planted to climb a wall or trained against a stone outcropping or *Taxus hicksi* espaliered against masonry or a fence, or a low-sweeping dogwood on a sloping lawn at a corner of a house; all have an important part in making the landscape design come alive and give interest and individuality to the results.

Too often one takes the easy way out and uses an upright taxus at each side of a doorway, a spreading Pfitzer juniper in the middle, and a couple of arborvitae at each corner, faced down with a spreading yew.

Many nurserymen prefer to use all taxus, because it doubles the price and costs no more to plant. I have seen it used effectively, especially when small, but in later years it has seemed rather heavy and somber.

## Changing Demands

In old houses the high concrete or stone foundations call for considerable fair-size material to hide the base and tie the house to the ground. Now a different situation exists. To

An address, "Use of Plants in the Landscape Design," given by Harold D. Stevenson, Harold Stevenson Landscape Service, Rockland, Mass., at the Massachusetts short course for nurserymen at the Waltham field station of the University of Massachusetts last spring.

day's houses, whether they be of the ranch type, or of split-level design, with wide expanses of glass, are set low, with a minimum of foundation. The client wants sunlight and air; so less planting is required or wanted. All the more it is necessary to use judgment in the selection and placing of these plants. A few well-chosen plants either close or in groups will give dignity and simplicity, which is the essence of good taste in landscape design.

To me the interesting part of landscape work is the ever-changing picture—the chance to depart from a set plan in planting. Every home and its grounds differ. Design and use of plants can vary; the personality of the owners requires different approaches. These offer challenges and chances to use initiative in solving each problem.

Why do we use certain plants for certain locations? Because they

achieve the effect we desire to produce. They lend solidarity or soften harsh lines; they broaden or accentuate; they give a variety of texture or supply color at certain seasons.

Why is one particular plant better or more desirable than another? That is a difficult question to answer. Everyone doing landscape work has his own favored plants. In most cases one can identify the person who did the work by the nature of the design or use of certain plant material.

First, it is highly important to think of the rate of growth of plants, especially in limited areas. Plants which look fine at the time of planting, can, in a few years, almost take over and destroy the original plan or design. Sometimes trimming will help, but if the plants are a large-growing type, pruning results in either stubby, ragged ends or rounded plants that do not fulfill the intended purpose.

Perhaps next is the matter of orientation or exposure. A plant must serve its purpose, but unless it is selected to thrive in its location, it reflects on the planter's judgment and brings a quick call from the client.

A good example of this particular problem is planting mahonia in an



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exposed location where the winter wind and sun will burn the leaves, or planting rhododendrons on the west side of a house, where the same effect is produced. The same error is made when ordinary shrubs are used in a moist or wet location, where clethra, vaccinium and amelanchier are better suited. Again, in a seaside planting, where high winds and salt spray will burn the needles of taxus, brown red cedars and wither ordinary shrubs, one should plant Pfitzer juniper, Mugho pine, black pine, elaeagnus, ilex in variety, roses, Scotch broom or cotoneaster.

### Industrial Sites

Industrial or institutional plantings, because of the size of the buildings and their larger areas, require the use of bolder masses, good-size trees and groups of flowering trees, to maintain scale.

An industrial building, a large brick one, facing north, with two wings, was treated as follows: Large high-branched pin oaks were planted to flank the main part of the building. On each side of high entrance steps, clumps of large Rhododendron maximum were used, banked with groups of kalmia to give texture. Taxus hatfieldi bordered each side of a short walk. At the corners, to

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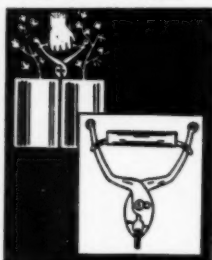
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give solidarity, large Ramont spruce were used, faced down with Ilex crenata and Pfitzer junipers. In front of each wing white dogwoods softened and gave variation, with Carolina rhododendron and taxus on one side, and Azalea mollis and taxus on the other, to add texture and color. On the north side of the right wing, rhododendrons, taxus and pieris were used, while on the south wing, only low junipers were used, because of the hot, dry location.

Another case totally different was a convalescent home. Flowering shrubs were used near the building in groups, because of their therapeutic value to the patients. Across the parking area a long row of floribunda roses was planted, with shrubs and groups of malus for more color interest. A large embankment, too steep for mowing, was planted to Hall's honeysuckle, to take care of erosion. On this, too, a few cotoneasters were planted near an outcropping, to relieve the monotony, while at the top, forsythia and Japanese tree lilacs were used for screening, as well as to extend the flowering season. Lindens, beech, sweet gum maples and various pines and hemlocks were planted for shade and screening purposes, along with many varieties of flowering trees. Taxus, Pfitzer juniper, azalea, spiraea, kalmia, flowering almond and many others frame the entrance driveway.

### Park Memorial Planting

In a small park at Marshfield, broad entrance steps go down from the street level to a memorial. A large boulder with a bronze plaque is set inside a circular walk. On each side of this step, dwarf spreading yews were planted, because they remain comparatively low. The rich dark green of these plants frame the entrance all year long, and the red berries are attractive. Just below the taxus, as a part of the same grouping, Azalea poukhanensis was planted for early flowering. On the left is a flowering crab apple near a large tree. Why place a crab apple there, with all the weight on one side? On the other side, a little distance away, is a group of three large red cedars, and nearby another cedar, tied in with shrubs and taxus. These evergreens, with their size and depth of color, counterbalance the other side in weight, but with varying form.

A small planting of low juniper, azaleas, taxus and ilex soften the boulder's appearance, while in irregular beds around the circular walk are groupings of mixed azaleas, with a white godwood still far-

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ther back on one side and a fair-size pin oak in another direction. These trees were used for interest, to strengthen the design and to frame vistas.

Along either side of the walk leading to a shelter and a large water-wheel, floribunda roses were planted, with groupings of rugosa roses and Rosa hugonis, with Spiraea prunifolia to tie them in. These floribunda roses give color all summer long and can be viewed from a bridge, as well as other locations.

A short section of an old stone wall has more floribunda roses in front of it, with climbing roses at the back. Along another section of this same wall the old grade, four feet higher, has been retained to preserve a large elm tree. Walls on the other three sides are planted with Juniperus depressa plumosa, sedums, thymus, etc., as ground covers. The rear of this wall was planted to the dwarf arctic willow and Euonymus alatus. The light blue-green feathery foliage of the willow makes a soft background, while the euonymus gives contrast in texture. Willows were used around the pond because of the wet condition and for their gracefulness.

#### Home Planting

With private homes there are instances where a formal planting is desired, but in most cases an off-balance or informal placing of plants gives more interest. One place of interest has trees all around the boundary, but not a single tree near the house. A large 10 to 12-inch caliper fern-leaved beech chosen as the tree to dominate the scene is planted near the edge of a brick terrace as a part of a garden, where it gives shade for the sitting area as well as the house. This tree has interesting foliage, and only a few of the lower branches were sacrificed for headroom. At the base of the tree, Euonymus kowensis is planted as a ground cover.

As one approaches from the parking area, to the left, against existing woods he sees laurel, rhododendrons of different varieties, Kousa dogwood for its late flowering and interesting pinwheel flowers, ferns, violets and myrtle. Across the grass path are groups of red cedars and beyond is a hedge of Taxus hatfieldi, which is the terminus of a rose garden, with a silverbell tree to give height.

On the other side of the main walk near a lamppost is a pink dogwood placed close enough so that light will be among the branches at night. With the dogwood, kalmia is used again, to tie in with the opposite

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|----------------------|-------------|
| 3" Square            |             |
| 1,000 to 9,000       | 18.25 per M |
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|                      |               |
|----------------------|---------------|
| 2 1/4" Round         |               |
| 2,000 to 18,000      | \$ 7.25 per M |
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| 76,000 and up        | 6.25 per M    |
| 2,000 per case — 50# | per case      |

|                      |             |
|----------------------|-------------|
| 3" Round             |             |
| 1,000 to 9,000       | 13.25 per M |
| 10,000 to 49,000     | 12.25 per M |
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planting, along with ilex, Taxus repandens and daphne. Beyond the pink dogwood at the corner of the house a white dogwood is used. At the base of the dogwood, rock cotoneaster is grouped to cover the entire area. Against the edge of the chimney, a slender pyramidal red cedar fits nicely, while pyracantha grows up the face of it. From the cotoneaster to the end of this wing a large bed of heather is used. These varying colors of green are interesting, and the flowers and berries give additional enjoyment.

On each side of the doorway two large Ilex crenata convexa are used, while at each corner of the main house, which juts out, two large white hibiscus are planted, with Taxus repandens, Azalea Queen Wilhelmiana and rock cotoneasters in between and an edging of Heuchera Rosamund along the brick wall.

Perhaps this is not the usual planting, but it suited the personalities of the clients, who liked to spend a great deal of time out of doors.

## CANADIAN IMPORT RULING

On September 8, 1958, the Canadian Department of Agriculture issued the following memorandum, regarding the importation of prepackaged nursery stock:

"The importation into Canada of woody-stemmed plants for resale is prohibited when the plants are root-wrapped or otherwise prepackaged singly or in groups in cartons, paper or plastic bags or other containers or wrappers, which in the opinion of the chief of the division render a satisfactory inspection on arrival in Canada unreasonably difficult or impracticable. This prohibition applies to plants such as roses, ornamental shrubs and trees, and gift or sample shipments of such plants intended for commercial or advertising purposes, but does not apply to bulbs, corms, tubers, rhizomes, dormant or semidormant perennial roots, plants intended for growing in greenhouses or balled and burlapped plants as such when imported from those countries from which the importation of plants with soil is permitted by regulation.

"The chief of the division has ruled that the importation of woody-stemmed plants with roots wrapped in sphagnum moss or other similar moisture-retaining packing, or plants the roots of which are contained in bags made of transparent plastic, plicofilm or similar material without moisture-retaining packing, shall be permissible provided that such wrapping is readily removable and does

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not cover any portion of the plant above ground level. A light waxing of the above-ground portions of plants is permissible, provided the wax is transparent.

"All labor incidental to inspection shall be provided by the importer.

"The conditions specified in this memorandum supersede those established in all previously issued plant inspection circulars and special memoranda relating to this subject."

### CAMPANA GOES TO MAINE

Dr. Richard Campana, associate plant pathologist on the staff of the Illinois Natural History Survey, Urbana, Ill., has been appointed head of the department of botany and plant pathology at the University of Maine, Orono, Me. In addition to serving as professor of botany and

head of the department of botany and plant pathology in the college of agriculture, Dr. Campana will be head of the department of botany and plant pathology in the agricultural experiment station.

A native of metropolitan Boston, Mass., Dr. Campana received a B.S. in forestry from the University of Idaho in 1943. After the war he was on the teaching staffs of Pennsylvania State University, University Park, and the University of North Carolina, Raleigh. He received both master's and doctorate degrees in forest pathology from Yale University, New Haven, Conn. Recipient of a research fellowship during doctorate study at Yale, he was also assistant forest pathologist in the division of forest pathology, United States Department of Agriculture, for three years. Going to Illinois in

1952 he has been concerned primarily with research and education on the lethal diseases, elm phloem necrosis and Dutch elm disease. Currently serving as president of the Illinois Technical Foresters Association, vice-president of the Midwestern chapter of the National Shade Tree Conference, member of the board of governors and chairman of the nomenclature and standards committee of the National Shade Tree Conference, he is senior author of "Guide for Community-wide Control of Dutch Elm Disease," a brochure recently published by the Midwestern chapter of the conference. Dr. Campana has studied intensively the spread of Dutch elm disease and has been active toward informing the public in Illinois about the nature of the disease and the methods for its control.



# Production Problems with Container-Grown Stock

By A. F. DeWerth

The increase in the volume of nursery stock produced in containers has been one of the most widespread developments in the nursery industry during the past 30 years. The practice of growing nursery stock in containers commercially in this country possibly had its beginning in Florida, but the major development of this activity has been in California.

The increasing development during the past 25 years has been caused principally by economic factors existing in the areas where the increase of this type of production has been the greatest.

Many more plants can be grown on a given area in containers than in the field, and when larger numbers of plants can be concentrated in a smaller area, it is more economical to produce them. If cultural methods are changed accordingly, normal field production losses are decreased.

## Method a Controversy

The production of nursery stock in containers has advantages which far outweigh the disadvantages when properly handled, and this method has caused revolutionary changes in established production practices. At the present time, even though the entire country knows about container-grown stock, some nurserymen are reluctant to accept this development as a good nursery practice. Some are very hostile to it, while others have adopted it on a wide scale. There is no doubt that its use is constantly increasing and that it has assumed a permanent place in nursery stock production.

The peculiar attitude of nursery producers toward any type of change has created many problems in the production of container-grown nursery stock which might have been avoided and now require immediate attention and solution by progressive growers.

Several agricultural experiment stations throughout the country are

conducting extensive experiments to determine which production methods and procedures give best results under their conditions.

The factors being explored at the Texas agricultural experiment station at the present time are soil mixtures, fertilization practices, watering methods, cultural practices such as pruning and disease control and size and type of containers, as well as extensive trials on various marketing methods and market development for this type of production.

## General Production Problems

The basic problem in producing container-grown nursery stock is the same as it is for field-grown stock — to produce the highest-quality plant, in the shortest possible time, at the lowest possible cost.

The greatest difference in general production practices between container and field-grown stock is the

intensification of production. A much larger volume can be produced on the same growing area. While this factor improves the grower's control over environmental factors considerably, it also increases the importance of good production and management practices and makes all growing practices more scientific and exacting. This makes a thorough knowledge of good growing practices and the response of plant growth to them imperative.

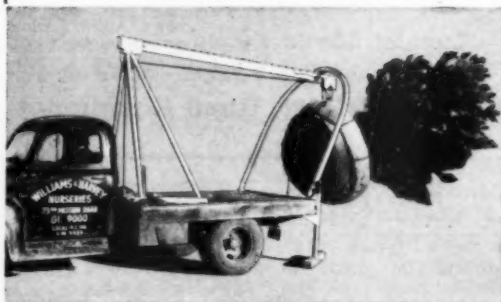
The grower has better control of the environmental factors of soil, light, temperature and moisture in container production than he does in field production. While this makes the development of automation much easier, it also means that the control cannot be neglected at any time if maximum results are to be obtained.

Environmental factors must be controlled properly; detailed production schedules must be carefully planned, and as many automatic production procedures as possible must be developed to realize the maximum profit. Precise schedules must be developed and followed for the entire life of the crop.

## Specific Problems of the Producer

1. LABOR: Because precision is necessary in carrying on growing

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Address, "Production Problems of Container-Grown Nursery Stock," given by A. F. DeWerth, head of the department of floriculture and landscape architecture, Agricultural and Mechanical College of Texas, College Station, Tex., at the short course for Texas nurserymen, held at the college last spring.

# TAXUS ROOT ROT

Damping-off and root rot of taxus plants and cuttings are usually caused by *Rhizoctonia solani*, a fungus which thrives in the soil during cool, moist weather. In the cutting bench lower needles turn yellow and drop, and the brown, heavy mycelium can be seen on the stem, at, below and sometimes above ground level. (Not to be confused with *Botrytis*, the gray mold.) In lining-out stock, symptoms resemble drought injury, and trees can be completely killed. On older trees slow growth and discoloration of tip needles follow a rotting of fine roots and brown lesions on larger roots that are covered with brown mycelium. One SUNOX soil application at the rate of 1:4000 has quickly checked dying of trees. Two or three applications spaced a week apart are more successful if infection is severe.

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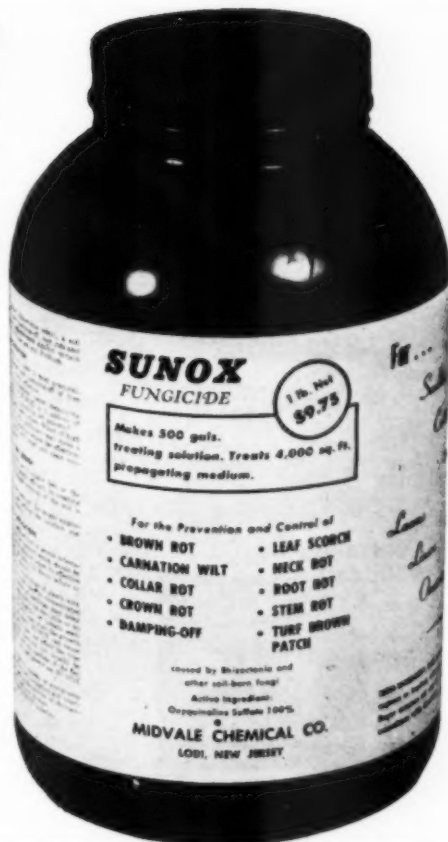
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operations, labor with some skill and knowledge of plant growth is required, especially to supervise and time essential growing practices. This is a crucial problem at present and from all indications will become more acute in the future. Workers who have had the kind of training essential to carry on this type of growing are just not available and will not be until wage scales, hours and other benefits are developed that are more in line with other industries employing highly skilled labor.

2. **FINANCING:** Present production of container-grown plants is too small to supply even a fraction of the potential market for plants of high quality. Container-grown production requires greater capital investment, more accurate planning and more rapid turnover of high-quality plants than field production. To produce plants for volume markets, adequate financing is vital. Most growers hope to start small and grow slowly, but initial capital outlay required to produce quality stock is considerable.

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ment of healthy disease-free planting stock. This problem is one of serious proportions, and steps must be taken to overcome it as quickly as it is practical to do so. This makes it imperative, of course, that every grower practice disease prevention and control as a scheduled growing procedure.

**4. KNOWLEDGE OF PRODUCTION COSTS:** In any nursery producing area, land values, tax rates, zoning restrictions and transportation costs are increasing. The costs of labor, materials and supplies are also increasing. With more intensified production, a knowledge of production costs is vital. It must be accurate cost information that can be prorated to each plant produced. While increased use of labor-saving methods and devices and mechanization and reduction of erratic crop losses are possible in container production, increases in production of this type will intensify competition in the production of nursery stock, and the financial return of the grower without an accurate knowledge of his production costs will decrease accordingly.

**Solutions for Problem**

With an accurate, adequate knowledge of production costs, the grower can cope with this problem in at least two ways: (a) Production costs can be reduced through improved culture, mechanization and reduction of plant losses by better growing management. (b) Competition can be reduced by growing plants upon which a legitimate profit can be made, by growing better-quality plants at a lower cost and by discarding items which have been produced and sold below cost. Without a complete knowledge of production costs the grower must price his plants from his competitor's catalog, which is a highly undesirable practice.

**Grading Biggest Problem**

**(5) LACK OF STANDARDIZATION:** The worst problem facing the producer of high-quality container-grown stock is the lack of some standard method of grading. This makes container growing most profitable for the grower of small or mediocre plants, since at the present time the only standardization used is the size of the container. It is possible for the good grower to produce a better and higher-quality plant in a 1-gallon container than that which the poor grower can produce in a 5-gallon container.

When the basis for sale is only the size of the container, no grading sys-

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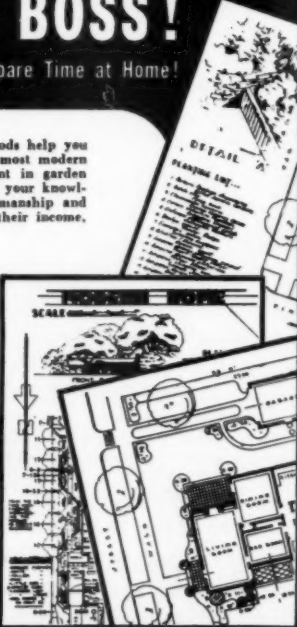
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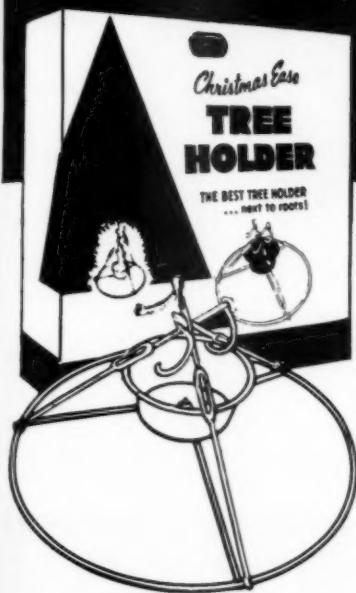




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tem exists. Commercial pot plant producers have been penalized by this system of marketing for many years. Some solution to this problem is long overdue, and the lack of it will affect container production adversely until it is overcome.

### Growing Problems

The major growing problems can be cited as follows:

1. **CONTAINERS:** A major problem in producing high quality nursery stock by this method is determining the type of container to use. This is a grower's decision now perhaps, but eventually it may be more dependent upon the preference of the ultimate consumer.

The use of 1-gallon tin cans has been widespread, but this has been only because of their availability, supposedly low cost and eventual common usage caused by custom rather than any other reason.

The problem is to determine the smallest size needed to produce the highest-quality plant preferred by the ultimate consumer. The type should be a nonporous material that is clean, attractive and returnable if desired.

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grower, this transcends every other consideration. Storage room, cleanliness, length of life, root growth obtainable, space in the growing area and getting the ultimate consumer back to the point of purchase by returning a container for a refund or for other reasons may be more important considerations in selecting the most desirable type and size of container.

**2. SOIL MIXTURE:** The type of soil mixture used will have much to do with the production of high-quality plants in smaller-size containers, at lower costs and in a shorter period of time.

One type of soil mixture will be satisfactory for almost any plant if it is properly managed. This problem must be solved by the individual grower if large amounts of his available soil are used in the mixture. To overcome most soil mixture problems, he must use sufficient organic matter to act as a buffer so that larger amounts of fertilizers may be added or so the mixture can become low in fertilizing materials at times without harming good plant growth.

There must be adequate drainage and sufficient water retention at all times. Uniform moisture content is possible at all times only when organic matter is used liberally. Unless sandy soil is used in the mixture, sand, perlite, fine gravel or similar material should be added to provide adequate drainage also.

Any soil mixture used for container plants should be sterilized, preferably with steam, to eliminate weeds, soil-borne diseases and insects and to improve the structure of the mixture. Cost of adequate steaming equipment can be saved in one crop produced when good growing management is practiced.

Proper nutrient supply is also a problem requiring solution in the near future. Newer forms of slow-release chemical fertilizers may hasten the solution to this problem.

**3. MOISTURE CONTROLS:** The proper control of moisture in the air and in the soil is a serious problem in quality production. The volume of water applied to the crop both overhead and in the soil at any given time has a great deal to do with the quality and rate of growth attained. Too much water will reduce growth and increase root loss through suffocation. If insufficient water is supplied, plant growth and quality are severely affected.

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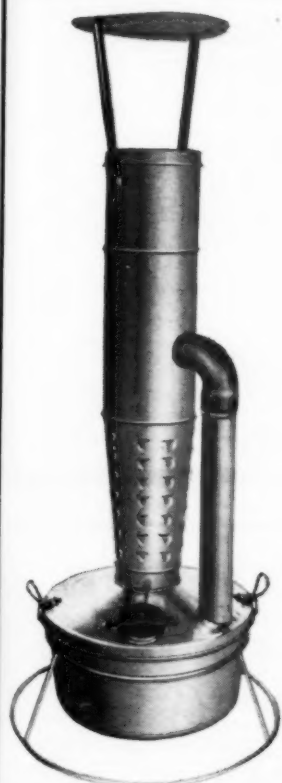
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method of assuring uniform growth. No satisfactory method of automatic watering has yet been devised which can be used independently of adequate knowledge by the grower as to when to apply the water.

Watering, like the problems of insect and disease control, type and time of pruning and training container-grown plants and proper feeding schedules are still practices based on the training and skills of personnel; this has already been pointed out as a serious production problem.

**4. LIGHT CONTROL:** Light control is a serious problem for growers of container stock especially in Texas and other areas of the south. While less attention is necessary to prevent damage to the crop from freezing or low temperatures, considerable knowledge is necessary for proper control of high temperatures and light intensities.

Light intensities in Texas and many areas of the south are so high for the major portions of the year that production without adequate control of this intensity through the use of lath shades or other means is highly undesirable for the majority of the crops grown. Some control of high temperatures can be exerted through the use of automatically controlled intermittent mist. Control

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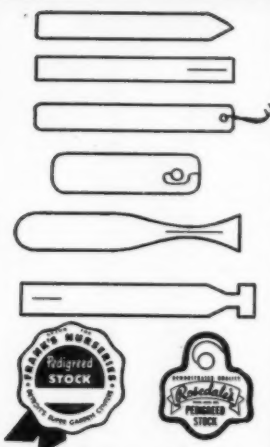
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of light intensity, light quality and even light duration will do much to solve many present problems of high-quality container production. With adequate controls for light intensity such as those now being studied for potted plants in greenhouses, the type and kind of growth and the rate at which it is produced can be greatly influenced. Continued work with light controls may help considerably in solving many of the other problems such as container type and size, watering, pruning, staking and other cultural practices.

### Summary and Conclusions

The problems outlined here are those which have repeatedly shown up through inquiries from producers of container nursery stock seeking a solution for some immediate problem which has arisen in their daily operations.

The solutions or partial solutions to some of the problems have already been developed. The solutions to others are undergoing extensive study in several experiment stations and by many growers themselves. The solutions are not enough, however. The important consideration is the adoption by the grower of proved practices already determined.

Many other problems such as weed control on areas used for container production have not been mentioned, but considerable strides have been made in the past year or two toward controlling this and similar problems.

However, if the growers will make a serious effort to understand the scientific facts underlying their various production practices they can eliminate many production problems before they arise.

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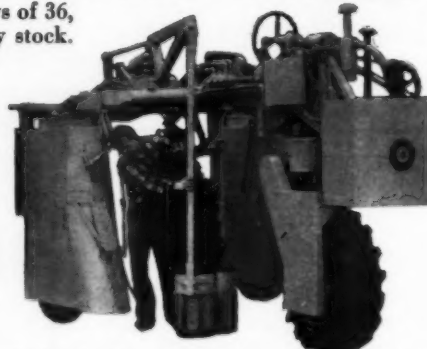
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uses of uniform soil mixtures, soil treatments, mechanization and smaller - packaged container - grown plants are definitely in the future, and any plan for future production must take these trends into account.

Marketing studies indicate that in the future the consumer will want more information about plants, less service and higher quality and not necessarily larger sizes at lower prices.

It is certain that, as these changes come, they will be rapid. Volume will perhaps replace size as a serious market consideration, but the trend will always be toward the highest quality at the lowest possible production cost. The type and size of plant produced in the future will be determined by what the ultimate consumer wants and not by what nurserymen think he ought to have.

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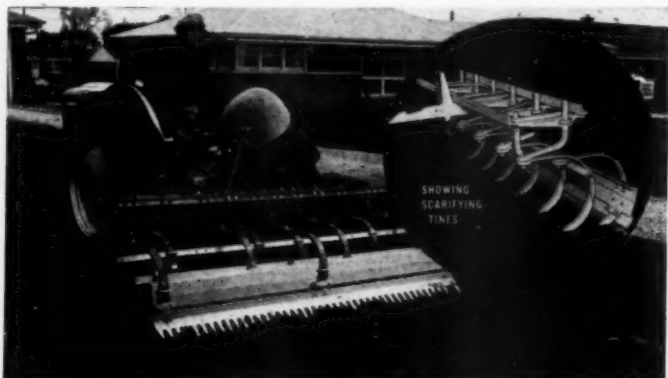
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## PLANT PATENTS

The following plant patents were issued recently, according to Rummel & Snow, Chicago patent attorneys:

No. 1748. Maple tree. William Flemer III, Princeton, N. J., assignor to Princeton Nurserymen's Research Associates, Kingston, a partnership. A new and distinct variety of Norway maple tree, characterized particularly as to novelty by a unique combination of its extremely rapid, vigorous and upright habit of growth, accompanied by an excurrent habit of branching as evidenced by its central stem or leader which extends upward through the center of the tree; by its tall, ovate crown which is taller than that typical of most Norway maples; by a habit of developing numerous branchlets on the sides of the current growth throughout the growing season, with a resultant heavy and dense branch formation within the crown, which is particularly evident in the young trees; by its extremely strong and straight trunk, which has a bark of slightly lighter color than that of ordinary Norway maples; by its extremely large, thick and leathery foliage, which is retained from 10 to 14 days longer in the fall than that of other Norway maples and which turns a clear yellow color, with green veins in the late fall; by its exceptionally good resistance to marginal leaf scorch and leaf hopper injury, and by its new soft tip growth of light green color, without the usual reddish color which is one of the characteristics of ordinary Norway maples.

No. 1749. Holly plant. Jackson Milton Batchelor, Pender county, North Carolina. A new and distinct variety of holly plant of the hybrid cornuta class, characterized particularly by the small size of the thick, dark green leaves; the heavy production of large, attractive red fruits; the vigor and dense pyramidal habit, and its inherent hardness and resistance to disease pests.

No. 1750. Rose plant. Raleigh F. Curtis, Torrance, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its general similarity to its parent variety Peace (plant patent No. 591), but being essentially distinguished therefrom by the light pink general color tonality of its flowers.

No. 1751. Nectarine tree, Frederick W. Anderson, Merced, Calif., assignor to Kim Bros., Reedley, a copartnership doing business as Reedley Nursery. A new and distinct variety of nectarine tree, which bears large clingstone fruit, generally similar to the Le Grand nectarine, having yellow skin partially overspread with red. It is characterized essentially by a harvest period extending on the average from the last days of August to 10 to 12 days into September, and further characterized by yellow flesh shading lighter from the outer to the intermediate portion, with purple red near the stone, the latter being of a purple cast.

No. 1752. Honey locust tree. William Flemer III, Princeton, N. J., assignor to Princeton Nurserymen's Research Associates, Kingston. A new and distinct variety of thornless honey locust tree, characterized particularly as to novelty by the



unique combination of extremely symmetrical and upright habits of growth; by large, thick and stiff branches, which are unusually resistant to ice and windstorm damage; by an excurrent habit of growth as evidenced by a strong and straight central leader that extends up through the crown of the tree; by a smooth and glossy bark, which has a "waxed" appearance; by a slightly rippled or sinuous form of the branches during the young stages of the tree, which disappears as the branches enlarge in diameter; by extremely large and finely cut foliage of heavy texture and an unusually large number of leaflets on each leaf, which give a fernlike effect, said foliage tending to droop slightly, and by the exceptionally dark green color of the foliage.

No. 1753. Nectarine tree. Harold D. Dougherty, Farmersville, Calif. A new and distinct variety of nectarine tree, characterized by medium-size, yellow-fleshed, freestone fruit, having a flavor resembling that of the Elberta peach and skin of yellow ground color, partially overspread with red. It is further characterized, in comparison with the Sun Grand nectarine, by substantially the same harvest period; by medium to dark green mature foliage, but not so deep a shade; by reniform rather than globose glands; by larger-size blossoms, and by fruit more uniform in size and elongated rather than round.

No. 1754. Peach tree. Frederic W. Anderson, Merced, Calif., assignor to Kim Bros., a copartnership doing business under the fictitious name of Reedley Nursery, Reedley. A new and distinct variety of peach tree, which bears large fruit of the yellow-fleshed, freestone class. It is particularly characterized by ripening after the Kirkman Gem peach and before the Merrill Fiesta peach. It is further characterized, in comparison to said Kirkman Gem and Merrill Fiesta peaches, by a tree that is more vigorous and productive and by fruit of larger size, firmer flesh, more exterior red color, longer keeping quality, a less acid flavor, a smoother and less conspicuous suture line and a less prominent apical point.

No. 1755. Nectarine tree. Frederic W. Anderson, Merced, Calif., assignor to Kim Bros., a copartnership doing business under the fictitious name of Reedley Nursery, Reedley. A new and distinct variety of nectarine tree, bearing general resemblance in tree and fruit characteristics to the Late Le Grand nectarine, being characterized, in comparison thereto, by ripening two to three weeks later, the first picking normally beginning at the end of the first week or early in the second week of September when grown in the Central valley of California.

No. 1756. Plum tree, Frederic W. Anderson, Merced, Calif., assignor to Kim Bros., a copartnership doing business under the fictitious name of Reedley Nursery, Reedley. A new and distinct variety of plum tree that bears large, uniform, globose fruit having a purple-red exterior color; yellow flesh, which shades to red near the skin, and a free to semifree stone. Said fruit is characterized, in likeness to the Santa Rosa plum, by the purple-red skin color and good eating quality, and, in likeness to the Eldorado plum, by the firmness of flesh and good shipping and keeping qualities thereof. It is distinctively characterized by ripening about two weeks after the Eldorado plum and about a week after the Late Rosa plum. It is additionally characterized by larger size than Santa Rosa, Eldorado and Late Rosa plum, and further characterized, as to

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the last-named, by being firmer of flesh, by remaining in good eating condition for a longer time, by having a lighter and brighter exterior color and by fewer culls at harvest.

No. 1757. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by the unique combination of vigorous and compact habits of growth; by abundance of flowers, with attendant suitability for pot forcing; by long-lasting quality of the flowers, and by a distinctive geranium-pink, lightly overcast with eosine-pink, general color tonality of the flowers.

All plant patents prior to plant patent No. 490, inclusive, have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

### ACORNS FREE OF WILT

Evidence has been increased that acorns that develop on diseased trees do not commonly harbor the oak wilt pathogen. T. W. Bretz, professor of forestry, University of Missouri, and W. D. Buchanan, entomologist, central states forest experiment station, both of Columbia, Mo., examined mature acorns from a wilt-infected black oak in a test in 1956. Their failure to find any disease pathogens is stated in a report on the test given in the Plant Disease Reporter, volume 41, No. 6.

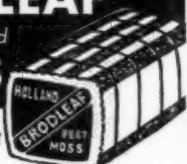
The tree from which the acorns were obtained was in an advanced stage of wilt by September 13, when it was felled. Twigs bearing acorns were collected at random on September 15, and attempted isolations were made on September 17, from each twig and all the acorns borne thereon. The twig tissues were fresh and green. The seed coats of the acorns were dry, but the embryos were full and firm.

A total of 124 acorns was used in the study. Only the embryo tissues and the adhering membrane were placed on the isolation medium. The oak wilt fungus was recovered from approximately half the twig samples, but it was not recovered from any of the acorns, even those that had developed on twigs in which the fungus was shown to be present. The acorn tissues were practically devoid of microflora.

### Embryos Active

Of interest was the activity shown by the acorn embryos, the report states. Black oak acorns normally remain dormant and germinate only after a period of stratification at low temperatures. This dormancy is

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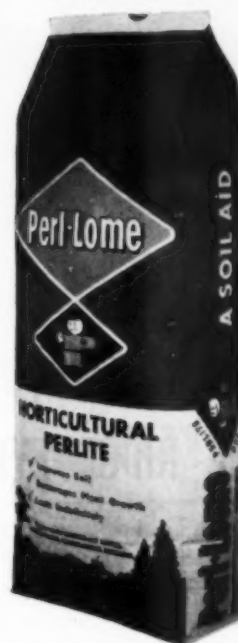
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largely because of conditions in the embryo. The embryos of the acorns from the diseased trees, however, showed immediate activity in the cultural dishes. Some scar tissue developed at points of injury to the cotyledons. There was also a rapid development and elongation of the plumule and the primary root. Secondary roots developed, and there was some slight growth of the primary leaves. Some chlorophyll developed in the plumule and primary leaf tissues.

To check if the activity shown by the cultured embryos was a response to injury, acorns from a disease-free black oak were similarly handled and plated in culture dishes. These embryos remained dormant and scar tissue developed on the injured cotyledons. The authors state that this suggests some metabolite had developed in the oak wilt-infected trees that accounted for the germination of the embryos and the formation of scar tissue on the cotyledons, or that the embryo tissues had not yet reached a stage of physiological maturation and dormancy.

Although the trials to date have been limited and cannot be considered conclusive, the authors state, they do indicate that acorns from

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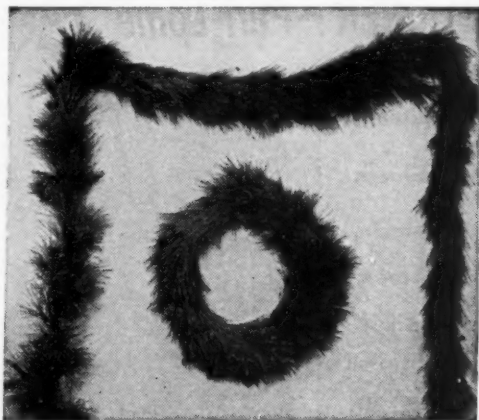
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diseased trees are not important in perpetuating the disease by giving rise to diseased seedlings, nor are they likely to constitute a source of inoculum for certain insects, such as acorn weevils, which are known to infest acorns.

## IOWA NURSERY'S GROWTH

Started 89 years ago to serve the early settlers of the Plains States, the Earl Ferris Nursery, Hampton, Ia., is now one of the largest nurseries in northern Iowa, according to an article appearing recently in the Mason City Globe-Gazette. The nursery was started at Bristow, Ia., in 1869 by S. W. Ferris, who grew fruit trees that provided the pioneers in the area with food and protection from the winter winds.

Located at Hampton for the past 60 years, the nursery is named after the son of S. W. Ferris and the father of the present owner, Wayne Ferris, a past president of the American Association of Nurserymen. Mr. Ferris' sons, Wayne, Jr., and Earl, represent the fourth generation of the family to work at the nursery. Though fruit trees are still an important item of production, a complete line of nursery stock is now grown, and evergreens are the firm's specialty.

Concentrating on mail-order sales, the nursery sends out over 400,000 catalogs each spring and fall to customers throughout the United States, including Alaska. According to the newspaper article, several thousand plant species grown on the nursery's 300 acres are listed in the catalog, and about 150 persons are employed during the spring and fall

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*excerpts from letters on file in our office.*

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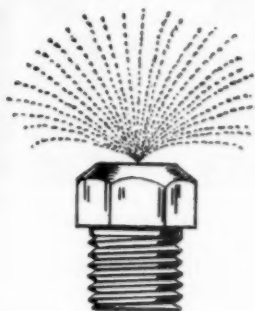
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### PEAR PSYLLA

Repeated inspection of the leaves of pear trees for the presence of psylla, a major pear pest, and a thorough covering of the foliage with spray if the pest is present are stressed as essentials for psylla control by entomologist E. H. Smith, Cornell University, Ithaca, N. Y., at the New York state agricultural experiment station, Geneva.

Commenting that winged psylla adults invade orchards from neglected trees, he says that one of the most effective materials for controlling pear psylla is malathion, which kills the adult psylla, the immature nymphs and the eggs by contact. It also has a residual action that gives about 10 days' protection after each application. Detailed psylla control information may be obtained from local county agricultural agents or from the New York experiment station.

### HEMLOCKS FOR WOODLANDS

Eastern hemlock, a tree of promise for the future, is under careful study by Jerry S. Olson at the Connecticut agricultural experiment station, New Haven. As one step in this investigation, eastern hemlock seeds were collected from more than 60 sources spanning the area where the tree commonly grows—from Nova Scotia west to Minnesota and south along the Appalachians as far as Alabama. Part of these seeds were used to establish an experimental nursery, and the seedlings showed genetic differences closely related to seed source.

Last fall and spring several thousands of the transplants were used in widely scattered plantings. Major experimental plantings of 500 to 800 trees were made in three Connecticut locations and in Tennessee, North Carolina, Wisconsin, Massachusetts and Illinois. Smaller plantings were made in Florida, Alabama, North Carolina, Tennessee and Virginia and in the provinces of Quebec, New Brunswick and Nova Scotia, Canada.

Some of the locations are outside the natural range of eastern hemlock, as one purpose of these plantings is to learn whether hemlock will grow in extreme climatic conditions. Even more important, the test plant-

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ings are expected to give new information on genetic differences as related to survival and growth of the transplants.

Research by Dr. Olson and others on germination of hemlock seeds under controlled conditions of temperature and photoperiod clears away many of the uncertainties that have long faced nurserymen. Results of this research are being readied for publication.

According to Henry W. Hicock, head of the department of forestry at the station, hemlock is particularly well suited to improvement of many Connecticut woodlands. Because of its shade tolerance, hemlock is one of the few species that can be introduced into existing stands. Thus it offers one way to raise the acre yield of merchantable products. Furthermore, hemlock has high aesthetic value and is important in wildlife conservation.

## NEW PLUMS UNDER TEST

Limited stocks of three new plum selections are now available for trial, on a restricted basis, from the New York state fruit testing association at Geneva, N. Y., it is announced by the Geneva experiment station of Cornell University. The three selections were developed in the station's continuing fruit-breeding program, which has already produced the Stanley, Albion, Hall and American Mirabelle plum varieties. The first of these—Stanley—is now widely grown in New York in place of Italian prune.

The three new selections are said to be promising, but they are still under test and will not be named until more is known about their performance. Italian prune figures in the parentage of two selections, according to the station fruit breeders. One is a large, reddish-blue freestone plum that ripens about a week before Stanley.

The second is a late season prune-type plum, ripening three to four weeks after Stanley. It is described as having good quality and as being self-fruitful. It may have value for prolonging the season for prune-type plums. The third selection comes from a cross between Tragedy and Early Laxton and is a very early, black, prune-type sort that ripens in mid-August.

CARSON NURSERY, a wholesale business, is being conducted at 728 West Carson street, Torrance, Calif., by Tsuru and Takeshi Kawagoe.

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P. O. Box 96, IRVINGTON 11, N. J.



# THE NEW LOOK . . .

**LAST YEAR** we told you on this page about our expanded facilities for storage and processing. Our new expansion had doubled the existing area and provided 5 times the previous refrigerated capacity.

**THIS YEAR** our progress continues. New facilities now under construction will increase our storage capacity again by more than 25 per cent.

**CONTINUING PROGRESS** since 1870 constantly provides the NEW LOOK in our nursery operations.

Bigger and Better Facilities to Serve the Needs of the increasing number of customers who are finding **QUALITY STOCK** and **PERSONAL SERVICE** at Lake's Shenandoah Nurseries.

Send Us Your Want List.

THE

LAKES

*Shenandoah*  
**NURSERIES**

SHENANDOAH, IOWA



# PRE-STAKED JUNIPER GRAFTS



Select, carefully chosen understocks insure a strong positive graft union. Systematic control in all stages of production insures disease-free grafts. Eliminates culls and grade-outs.



*Order Now For Spring Delivery*

## 7 OUTSTANDING VARIETIES

**MOUNTBATTEN  
BLUE HAVEN  
SILVER GLOW  
CANAERT  
HILLSPIRE  
GLAUCA  
DUNDEE**

**75¢ each  
IN 100 LOTS  
65¢ each  
IN 1,000 LOTS**

Orders for 300 or more  
take 1000 rate

Large, healthy scions are carefully rogued stock block cision fitted to the understock mix, pots, and benches are steam sterilized to insure best culture conditions.



Newly made grafts are plunged in temperature controlled beds — under glass — for the healing period. Hill's invite comparison of these superior quality Juniper Grafts with similar products advertised as "just as good".

**NEW CUSTOMER SPECIAL INTRODUCTORY OFFER**  
**\$55.00 - GETS YOU - 75** DELIVERY PREPAID  
Terms: Net — remittance with order

Pre-staked grafted liners are shipped in multiples of 25, in specially designed cartons.



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